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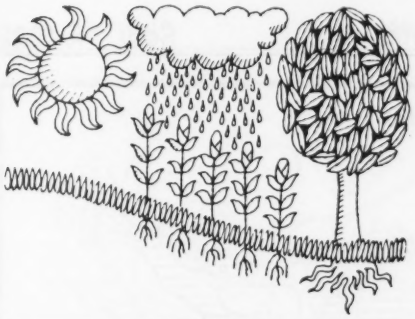

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

Volume 69, No. 37 WASHINGTON, D.C. Sept. 14, 1982

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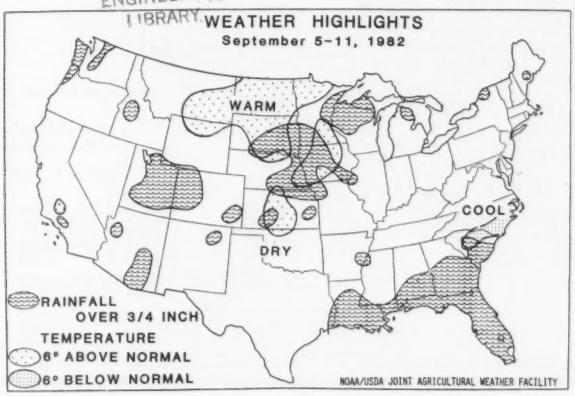
National Weather Summary

Sept. 5 - 11



HIGHLIGHTS: Warm temperatures through the Plains for most of the week included the western Corn Belt where average temperatures were about 6° above normal These warm temperatures should hasten development of corn and soybeans and help crops to catch up to normal. Cooler air hung over the East most of the week, and another mass of cool air began moving in from the West at the end of the week. Moderate to heavy showers fell in the central Plains and covered the dry part of southwestern Kansas but did not reach most of Oklahoma and Texas. Tropical Storm Chris was born in the Gulf of Mexico and spread showers and thunderstorms over the southern part of the Gulf States, Florida, and the Mississippi Detla.

SUNDAY . . .Record low temperatures were tied or broken from New York to North Carolina and westward into Kentucky and Tennessee. Afternoon temperatures warmed to the eighties through the Corn Belt but stayed cool in the northern Plains. Showers and thunderstorms reached from northern Arizonia to Colorado and Kansas and northeastward to southern Minnesota, Wisconsin, and Michigan. A few showers fell over Florida and the southern tip of Texas, but the dry area in Oklahoma had no rain.

MONDAY . . .Morning temperatures remained cool over the northern tier of States and the East Coast States as far South as Georgia. Afternoon temperatures were over 80° in all of the West and south of a line from southern Kansas, along the Ohio River, Maryland, and southern New England. Showers and thunderstorms were light and widely scattered over the central and southern Plateau and Rockies, but more frequent from eastern Kansas and Nebraska through Illinois, and the southern and eastern Great Lakes regions.

TUESDAY . . .Showers were scattered over the Nation. Some moderate amounts of rain fell in parts of Florida and southern Louisiana. Showers were scattered over the southern Texas coast, more frequent in the Southwest and central Rockies, and very light from Ohio through New Jersey. Morning temperatures remained cool over the Northern and East Coast States, but warmer weather began pushing into the Plains during the day.

WEDNESDAY . . .Cool weather settled over the Northeastern third of the Nation. Light northerly winds brought temperatures in the thirties and forties to the Great Lakes region and New England. Warmer weather continued to push in from the West, and readings in the eighties and nineties spread over the Plains. A disturbance in the Gulf of Mexico triggered showers along the gulf coast east of southern Louisiana and through Florida. Seasonal showers reached from southern California to the central Rockies and into Kansas and Nebraska.

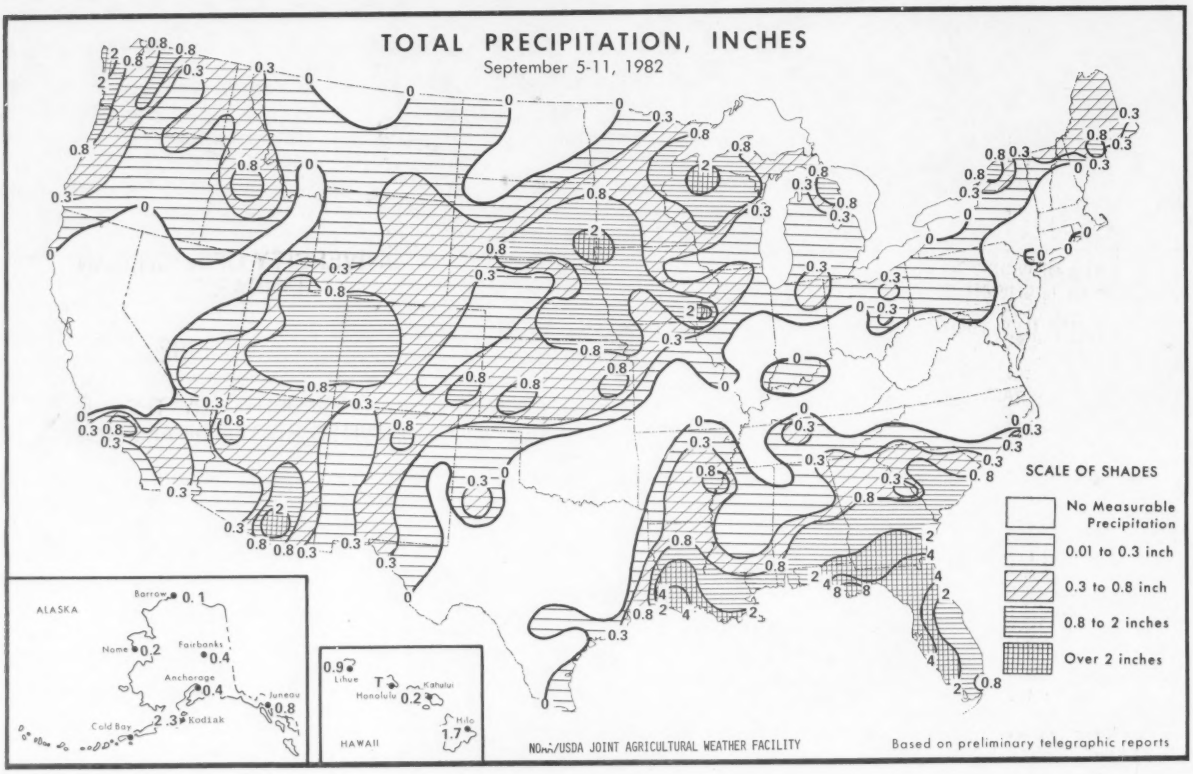
THURSDAY . . .The disturbance in the Gulf of Mexico intensified and triggered showers over the eastern gulf coast region. Some heavy showers fell from the Florida Panhandle through southern Georgia. Showers and thunderstorms were occasionally heavy from eastern Nebraska to western Wisconsin. Occasionally moderate, scattered showers fell in the Southwest, and a cold front brought showers to the Pacific Northwest. The warmer weather pushed through the Plains and spread into most of the East. Temperatures in the eighties covered all of the Corn Belt. (continued on back cover)

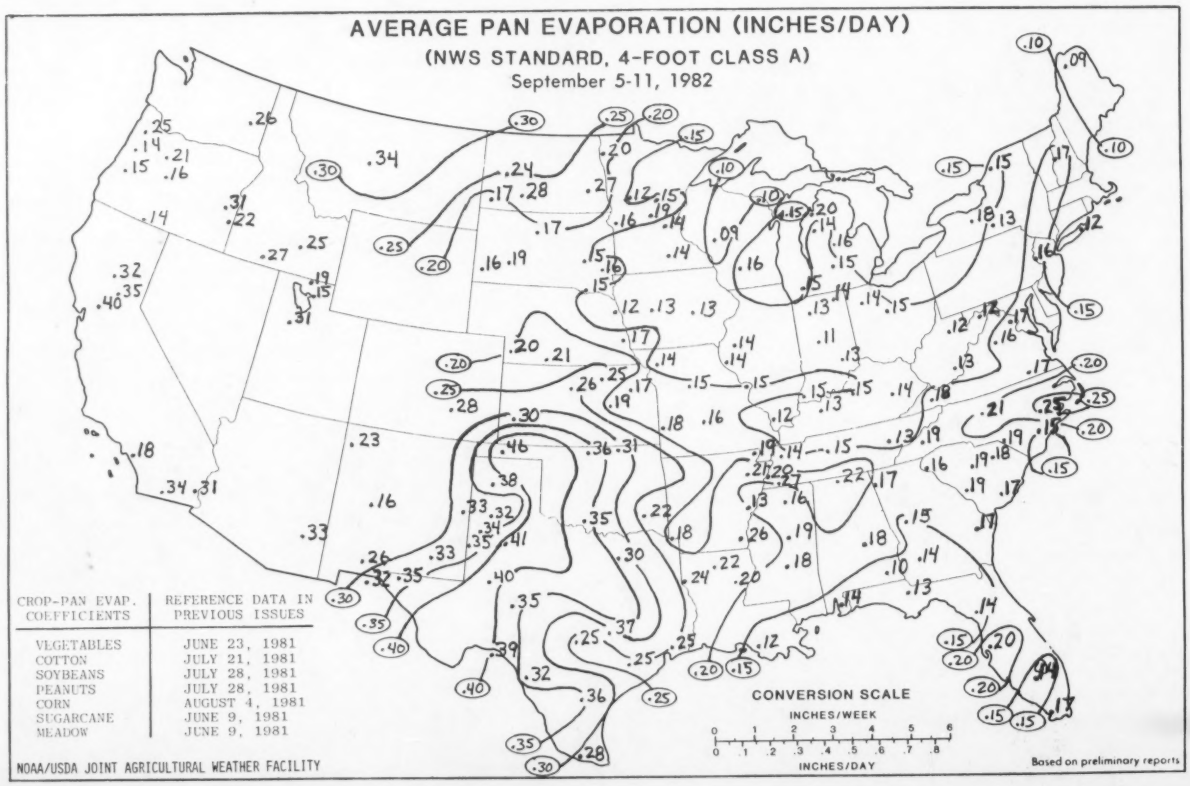
CORRECTION

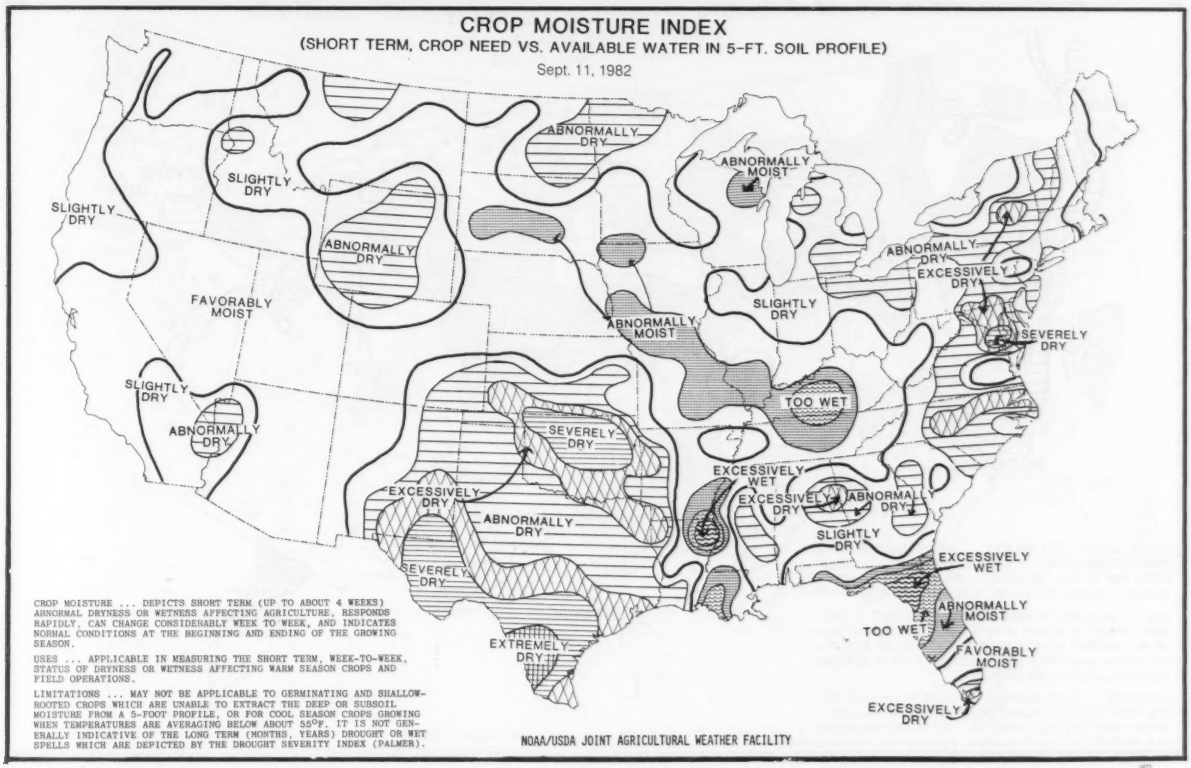
Subscription prices quoted in last week's Bulletin should have been: domestic $25.00 instead of $13.00 and foreign $33.00 instead of $18.00.

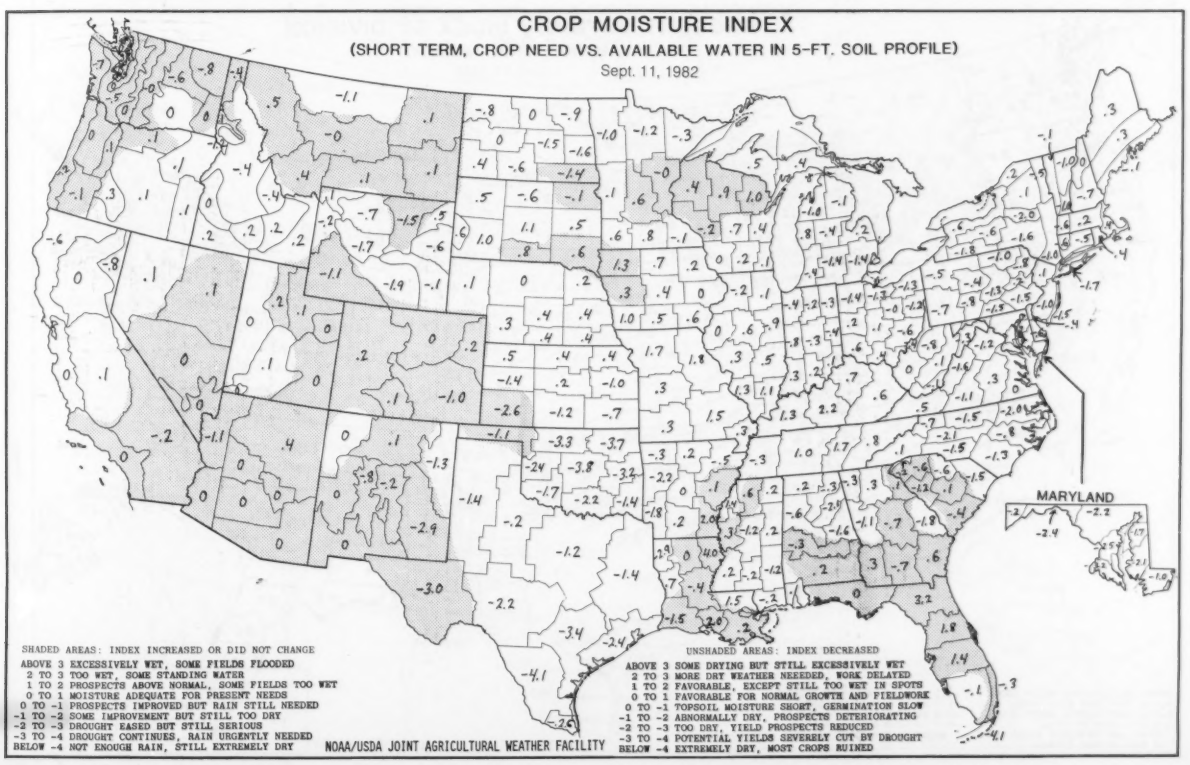
Contents

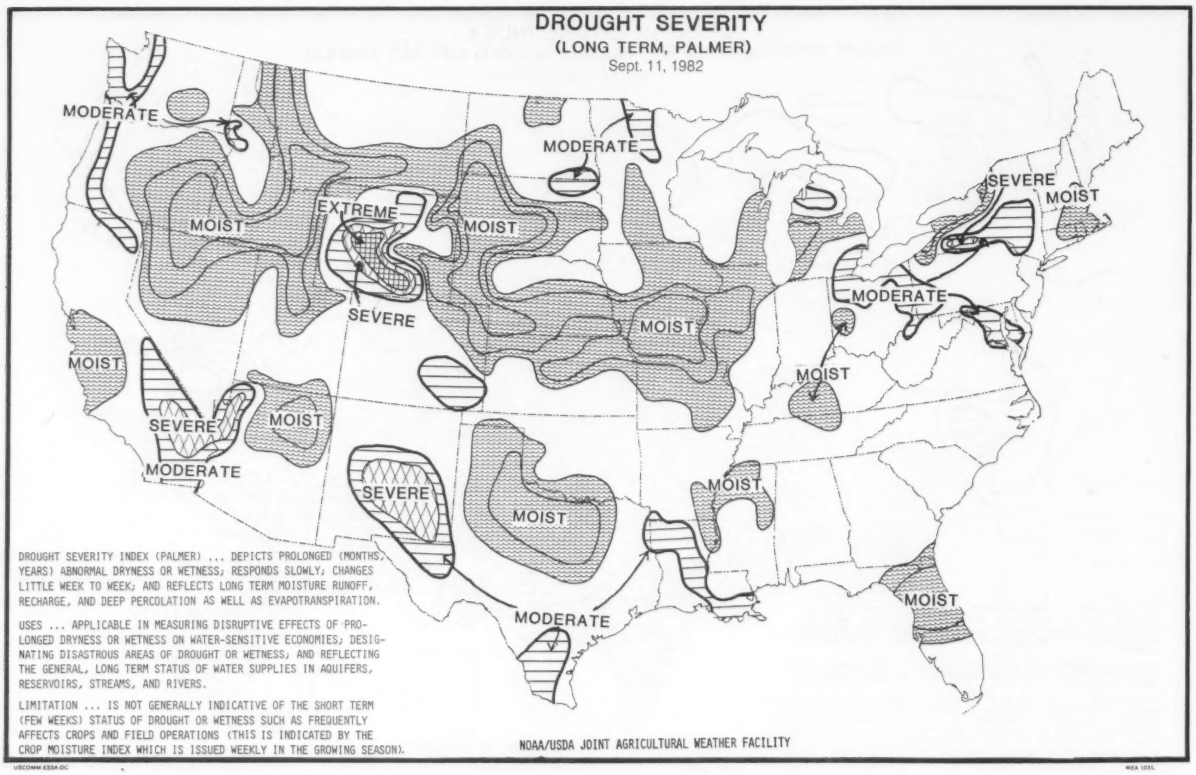
	Page
National Weather Summary	1
Precipitation & Pan Evaporation	2
Crop Moisture & Crop Moisture Index	3
Drought Severity & Drought Severity Index	4
Additional Precipitation Needed to End Drought & Growing Degree Days	5
Temperature & Departure	6
Weather Data for Selected Cities	7
Cooling Degree Days	10
Streamflow During August	11
Summer Weather Review	12
Summer Precipitation & Percent of Normal	13
Summer Temperature & Departure	14
National Agricultural Summary	15
Crop Progress Tables	16
September Crop Production Highlights	17
State Summaries of Weather & Agriculture	18
World Precipitation	24
International Weather & Crop Summary	25
Subscription and Mailing Permit Information	28

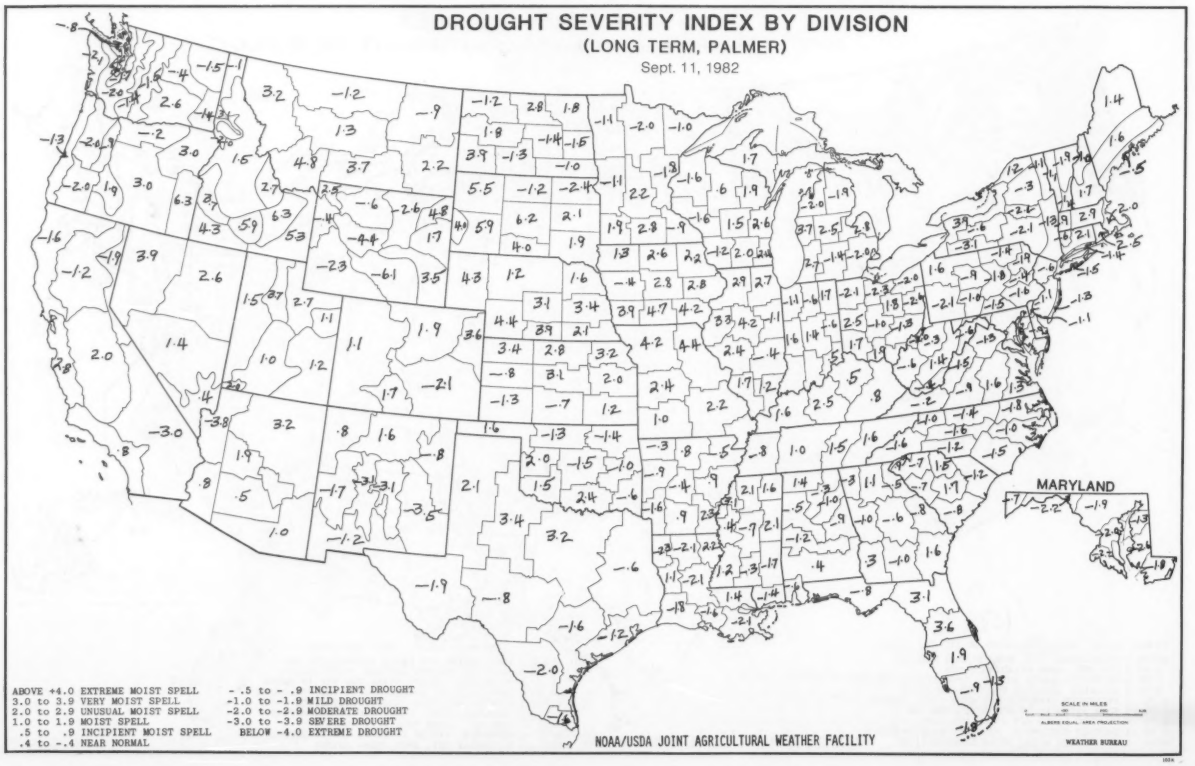

TOTAL PRECIPITATION, INCHES
September 5-11, 1982
SCALE OF SHADES
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
Barrow 0.1
Nome 0.2
Fairbanks 0.4
Anchorage 0.4
Juneau 0.8
Kodiak 2.3
Cold Bay
HAWAII
Lihue 0.9
Honolulu T
Kahului 0.2
Hilo 1.7
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

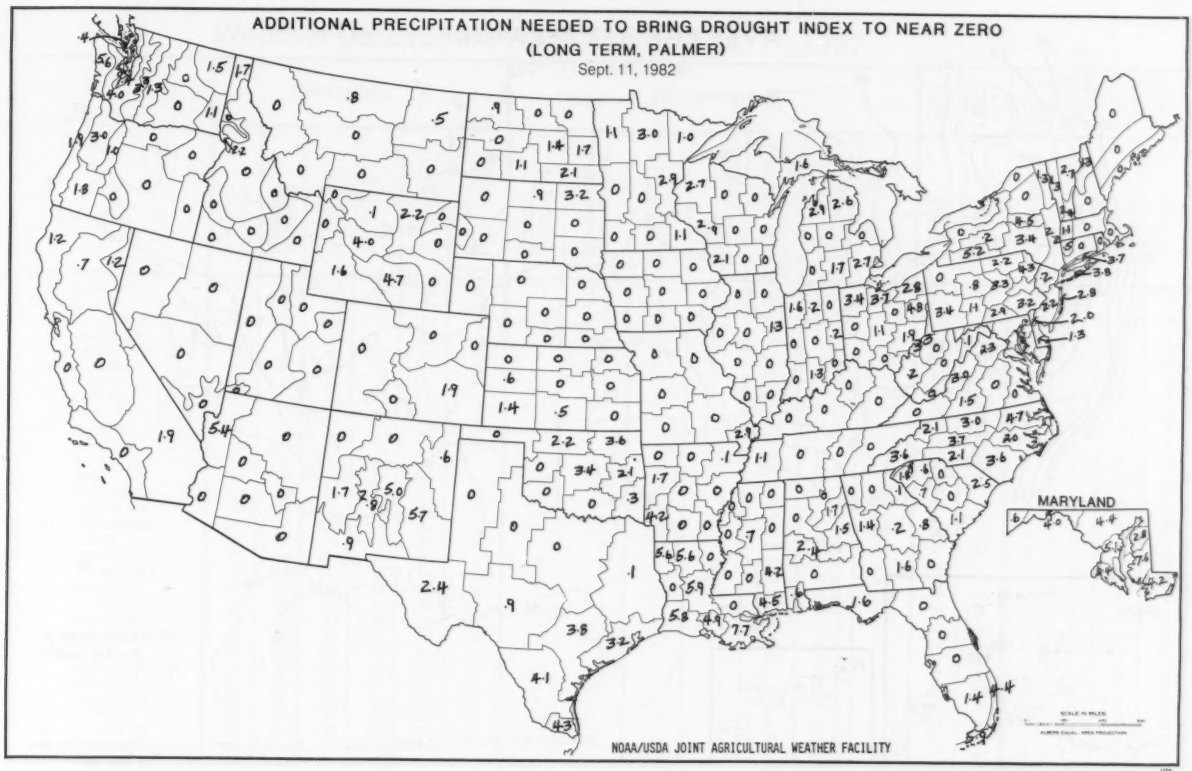

AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
September 5-11, 1982
CROP-PAN EVAP. COEFFICIENTS | REFERENCE DATA IN PREVIOUS ISSUES
VEGETABLES JUNE 23, 1981
COTTON JULY 21, 1981
SOYBEANS JULY 28, 1981
PEANUTS JULY 28, 1981
CORN AUGUST 4, 1981
SUGARCANE JUNE 9, 1981
MEADOW JUNE 9, 1981
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

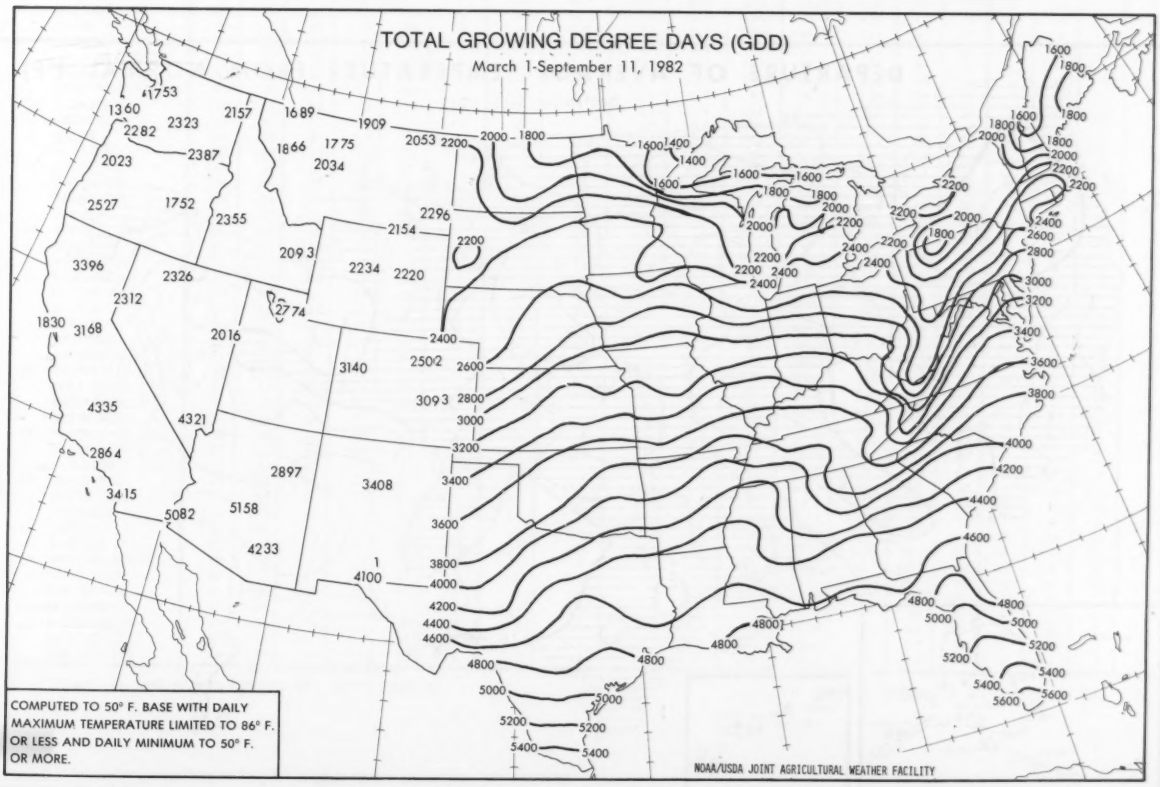

CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Sept. 11, 1982
SLIGHTLY DRY
SLIGHTLY DRY
ABNORMALLY DRY
ABNORMALLY DRY
FAVORABLY MOIST
SLIGHTLY DRY
ABNORMALLY DRY
ABNORMALLY MOIST
ABNORMALLY MOIST
SLIGHTLY DRY
ABNORMALLY DRY
EXCESSIVELY DRY
SEVERELY DRY
TOO WET
SEVERELY DRY
EXCESSIVELY WET
EXCESSIVELY DRY
ABNORMALLY DRY
SLIGHTLY DRY
EXCESSIVELY DRY
ABNORMALLY DRY
SEVERELY DRY
EXCESSIVELY WET
ABNORMALLY MOIST
TOO WET
FAVORABLY MOIST
EXTREMELY DRY
EXCESSIVELY DRY
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.
USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.
LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 50°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

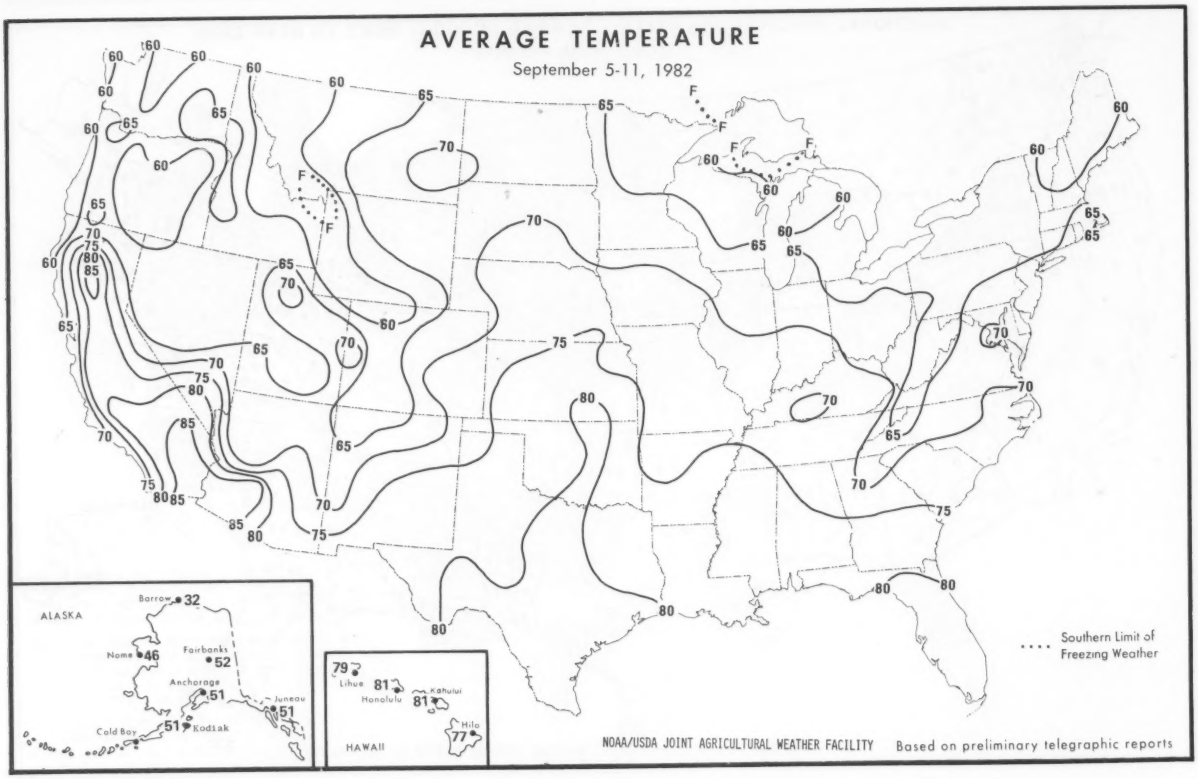

CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
Sept. 11, 1982
MARYLAND
SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY
UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

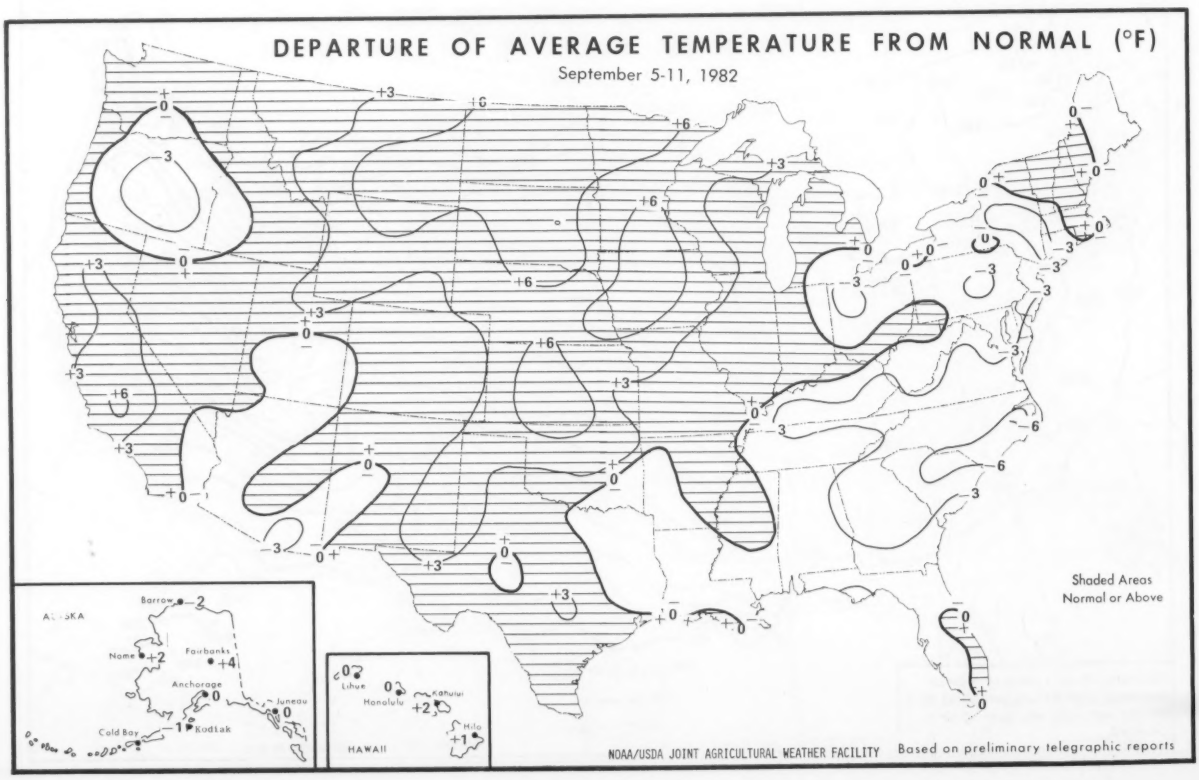

DROUGHT SEVERITY
(LONG TERM, PALMER)
Sept. 11, 1982
MODERATE
MOIST
EXTREME
SEVERE
MODERATE
MOIST
SEVERE
MOIST
MOIST
MODERATE
MOIST
SEVERE
MOIST
MODERATE
SEVERE
MOIST
MOIST
MOIST
MODERATE
DROUGHT SEVERITY INDEX (PALMER) ... DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE WEEK TO WEEK; AND REFLECTS LONG TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.
USES ... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER-SENSITIVE ECONOMIES; DESIGNATING DISASTROUS AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL, LONG TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, STREAMS, AND RIVERS.
LIMITATION ... IS NOT GENERALLY INDICATIVE OF THE SHORT TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX WHICH IS ISSUED WEEKLY IN THE GROWING SEASON).
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


DROUGHT SEVERITY INDEX BY DIVISION
(LONG TERM, PALMER)
Sept. 11, 1982
MARYLAND
ABOVE +4.0 EXTREME MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
1.0 to 1.9 MOIST SPELL
.5 to .9 INCIPIENT MOIST SPELL
.4 to -.4 NEAR NORMAL
- .5 to - .9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
WEATHER BUREAU


ADDITIONAL PRECIPITATION NEEDED TO BRING DROUGHT INDEX TO NEAR ZERO
(LONG TERM, PALMER)
Sept. 11, 1982
MARYLAND
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


TOTAL GROWING DEGREE DAYS (GDD)
March 1-September 11, 1982
COMPUTED TO 50° F. BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F. OR LESS AND DAILY MINIMUM TO 50° F. OR MORE.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


AVERAGE TEMPERATURE
September 5-11, 1982
ALASKA
Barrow 32
Nome 46
Fairbanks 52
Anchorage 51
Juneau 51
Cold Bay 51
Kodiak
HAWAII
Lihue 79
Honolulu 81
Kahului 81
Hilo 77
Southern Limit of Freezing Weather
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
September 5-11, 1982
ALASKA
Barrow 2
Nome +2
Fairbanks +4
Anchorage 0
Juneau 0
Cold Bay 1
Kodiak
HAWAII
Lihue 0
Honolulu 0
Kahului +2
Hilo +1
Shaded Areas Normal or Above
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

Weather Data for the Week Ending Sept. 11, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	84	66	86	60	75	-1	T	- .9	T	.5	28	50.6	132	85	49	0	0	1	0
MOBILE	86	69	89	66	78	-2	1.1	- .6	.6	1.3	38	57.3	116	92	60	0	0	3	1
MONTGOMERY	85	69	89	64	77	-1	1.9	.9	1.7	1.9	100	47.5	135	83	52	0	0	2	1
AK ANCHORAGE	56	46	59	41	51	0	.4	- .2	.1	1.8	150	8.7	90	91	57	0	0	5	0
BARROW	34	30	35	28	32	-2	.1	- .1	T	.3	75	3.6	100	100	92	0	7	4	0
FAIRBANKS	61	44	72	37	52	4	.4	.1	.2	1.2	171	9.5	108	84	53	0	0	4	0
JUNEAU	57	45	62	39	51	0	.8	- .7	.5	2.1	72	28.7	92	100	75	0	0	6	1
KODIAK	57	45	63	40	51	-1	2.3	.9	1.6	2.8	108	38.6	110	96	72	0	0	4	1
NOME	53	39	67	30	46	2	.2	- .4	.2	.8	62	11.5	97	74	44	0	1	2	0
AZ PHOENIX	97	79	110	69	88	2	.1	- .1	.1	.1	25	5.8	121	61	31	6	0	1	0
PRESCOTT	78	58	88	54	68	-2	.6	.2	.3	.6	67	10.7	79	81	38	0	0	4	0
TUCSON	91	67	101	59	79	-3	2.2	1.8	1.0	2.2	275	10.5	130	76	33	3	0	3	3
YUMA	97	78	109	75	88	-1	.1	.1	.1	.1	100	2.6	163	62	30	6	0	2	0
AR FORT SMITH	89	62	91	57	75	-1	0	- .8	0	.3	20	32.4	108	93	39	3	0	0	0
LITTLE ROCK	86	65	88	58	76	0	.4	- .4	.4	.9	56	41.5	127	91	55	0	0	1	0
CA BAKERSFIELD	95	73	103	69	84	6	0	0	0	0	+100	4.8	130	64	28	6	0	0	0
EUREKA	65	53	71	47	59	2	T	0	T	0	0	24.4	108	92	69	0	0	1	0
FRESNO	94	64	100	59	79	4	0	0	0	0	+100	8.6	137	71	23	5	0	0	0
LOS ANGELES	77	66	90	64	71	2	.2	.1	.2	.2	100	8.8	114	88	63	1	0	1	0
RED BLUFF	95	67	104	64	81	4	0	- .1	0	0	0	12.8	96	52	17	6	0	0	0
SACRAMENTO	90	59	97	55	74	2	0	0	0	0	+100	18.1	156	76	24	3	0	0	0
SAN DIEGO	78	69	82	68	74	3	.2	.1	.2	.2	200	9.2	161	90	68	0	0	1	0
SAN FRANCISCO	75	55	83	52	65	1	T	0	T	0	+100	22.6	200	85	44	0	0	0	0
CO DENVER	80	53	89	45	66	1	.4	.1	.3	.4	80	9.1	79	77	30	0	0	3	0
GRAND JUNCTION	80	60	86	56	70	0	1.2	1.0	1.0	1.2	300	5.0	89	77	39	0	0	3	1
PUEBLO	87	54	93	48	71	2	.2	0	.2	.2	40	13.5	138	88	31	3	0	2	0
CT BRIDGEPORT	75	55	81	49	65	-4	T	- .7	T	.5	36	36.5	139	91	55	0	0	0	0
HARTFORD	79	49	87	46	64	-1	0	- .9	0	.8	44	39.0	136	93	40	0	0	0	0
DC WASHINGTON	82	62	88	57	72	-1	T	- .8	T	.1	6	27.7	98	82	46	0	0	0	0
FL APALACHICOLA	82	71	89	69	77	-3	11.4	9.1	7.7	13.9	309	56.0	133	99	82	0	0	6	3
DAYTONA BEACH	87	73	88	70	80	-1	1.2	- .5	.5	1.2	36	39.0	110	94	70	0	0	3	2
JACKSONVILLE	86	71	90	67	79	-1	6.8	4.8	3.1	8.5	218	43.5	108	99	73	1	0	4	3
KEY WEST	89	78	90	75	83	-1	.5	- 1.2	.4	2.5	81	28.9	116	85	68	2	0	4	0
MIAMI	90	77	91	75	84	2	.8	- 1.2	.4	3.2	84	46.5	114	92	59	6	0	5	0
ORLANDO	90	74	92	73	82	1	1.4	- .4	.7	1.5	44	43.7	113	95	60	4	0	6	1
TALLAHASSEE	84	73	90	72	79	-1	3.9	2.3	2.0	4.1	128	48.3	104	91	67	1	0	3	3
TAMPA	89	74	93	71	81	-1	5.0	3.3	2.3	5.0	147	45.6	118	96	64	2	0	4	2
WEST PALM BEACH	90	76	92	74	83	1	1.8	- .4	.6	2.8	67	56.3	136	89	60	7	0	6	1
GA ATLANTA	78	62	82	59	70	-5	.7	- .1	.5	2.9	181	41.0	116	85	58	0	0	2	1
AUGUSTA	83	61	90	53	72	-4	.2	- .7	.2	.2	12	28.5	88	90	48	1	0	2	0
MACON	84	66	88	57	75	-3	1.1	.3	.7	2.5	156	36.7	113	94	57	0	0	3	1
SAVANNAH	83	69	87	63	76	-2	1.0	- .4	.5	1.0	36	44.5	113	88	60	0	0	3	1
HI HILO	84	71	84	69	77	1	1.7	- .1	1.3	8.3	218	145.2	170	94	66	0	0	5	1
HONOLULU	88	74	92	68	81	0	T	- .1	T	.5	167	23.2	169	81	55	1	0	2	0
KAHULUI	88	73	91	65	81	2	.2	.2	.1	.4	+100	23.2	207	78	50	3	0	3	0
LIHUE	84	73	85	66	79	0	.9	.5	.7	1.2	150	47.3	184	93	69	0	0	4	1
ID BOISE	81	49	92	35	65	-1	T	0	T	.1	100	7.6	97	61	21	2	0	1	0
LEWISTON	81	52	90	43	66	1	.2	0	.1	.2	50	8.1	94	74	25	1	0	2	0
POCATELLO	81	46	89	35	63	1	0	- .1	0	.4	133	10.2	132	73	20	0	0	0	0
IL CHICAGO	78	55	88	47	66	0	.1	- .6	.1	.5	36	27.2	117	94	53	0	0	1	0
MOLINE	80	60	87	51	70	3	.4	- .5	.4	1.3	76	30.1	117	93	62	0	0	2	0
PEORIA	79	60	87	54	69	2	.3	- .6	.3	.7	41	32.5	127	98	64	0	0	2	0
QUINCY	80	63	86	57	72	2	.1	- .9	.1	2.4	120	32.6	--	92	60	0	0	1	0
ROCKFORD	78	56	87	48	67	1	.7	- .3	.7	.9	47	30.0	114	96	60	0	0	1	1
SPRINGFIELD	81	61	87	56	71	2	T	- .8	T	2.0	143	26.1	107	93	62	0	0	0	0
IN EVANSVILLE	83	60	85	51	71	0	T	- .7	T	3.7	285	35.2	116	91	52	0	0	1	0
FORT WAYNE	76	54	84	49	65	-2	.3	- .3	.2	.3	27	30.4	118	88	51	0	0	2	0
INDIANAPOLIS	81	58	85	48	70	1	0	- .7	0	.9	69	30.6	112	86	45	0	0	0	0
SOUTH BEND	76	57	86	52	67	1	.3	- .5	.3	.3	20	29.3	117	93	57	0	0	1	0
IA DES MOINES	80	66	87	60	73	6	.5	- .2	.3	2.5	167	32.9	141	90	65	0	0	2	0
SIOUX CITY	79	64	87	62	71	6	1.2	.5	.6	1.5	107	19.6	94	91	61	0	0	2	2
WATERLOO	77	62	87	57	70	6	.2	- .7	.2	2.7	150	24.4	97	88	63	0	0	2	0
KS CONCORDIA	83	66	94	62	75	5	.8	0	.8	1.4	88	33.1	153	91	55	1	0	2	1
DODGE CITY	91	68	99	63	79	8	.9	.4	.8	1.0	100	16.2	101	77	35	4	0	2	1
GOODLAND	84	58	93	50	71	4	.7	.4	.5	1.1	157	21.5	160	86	36	2	0	4	0
TOPEKA	81	66	86	63	73	3	.4	- .4	.4	.5	29	30.5	114	87	63	0	0	3	0
WICHITA	92	68	96	65	80	7	.4	- .5	.2	1.3	76	23.7	106	77	32	6	0	4	0
KY BOWLING GREEN	79	58	82	50	69	-6	T	- .8	T	4.4	293	35.6	103	100	59	0	0	0	0
LEXINGTON	80	59	85	50	70	-1	0	- .7	0	3.0	214	28.2	87	91	50	0	0	0	0
LOUISVILLE	81	60	84	51	71	-1	.1	- .6	.1	2.7	193	32.3	103	89	51	0	0	1	0
LA ALEXANDRIA	88	66	92	57	77	-2	2.3	1.7	2.3	2.6	217	34.9	--	83	45	4	0	1	1
BATON ROUGE	88	71	92	65	79	0	1.5	.6	1.5	1.8	95	35.0	89	85	55	4	0	2	1
LAKE CHARLES	87	69	90	63	78	-2	6.7	5.7	6.6	9.8	516	38.8	100	91	56	1	0	2	1
NEW ORLEANS	85	72	90	69	78	-1	1.2	- .2	.9	1.4	50	41.9	101	93	63	1	0	3	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending Sept. 11, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	SHREVEPORT	90	65	93	59	78	-2	.1	- .6	.1	.5	36	22.8	74	92	45	5	0	1	0
ME	CARIBOU	65	46	73	36	56	-1	.4	- .5	.4	1.7	94	25.8	108	95	56	0	0	2	0
	PORTLAND	74	48	84	44	61	0	0	- .7	0	.7	50	31.4	122	90	49	0	0	0	0
MD	BALTIMORE	81	58	86	52	69	-1	0	- .8	0	.9	53	24.7	86	87	45	0	0	0	0
	SALISBURY	80	55	86	51	67	-5	0	- 1.0	0	0	0	28.2	89	99	53	0	0	0	0
MA	BOSTON	76	58	87	54	67	1	0	- .8	0	.4	24	35.5	125	76	42	0	0	0	0
	CHATHAM	69	55	77	49	62	--	0	--	0	5.0	--	33.4	--	92	68	0	0	0	0
MI	ALPENA	73	46	83	35	59	1	1.2	.4	1.1	2.1	131	16.7	90	98	49	0	0	2	1
	DETROIT	78	50	87	45	64	-2	.2	- .4	.2	.2	17	21.8	96	90	44	0	0	1	0
	FLINT	76	51	85	41	63	0	T	- .6	T	.3	23	17.7	84	91	51	0	0	1	0
	GRAND RAPIDS	78	52	86	43	65	0	T	- .8	T	.6	40	22.0	102	89	54	0	0	1	0
	HOUGHTON LAKE	73	48	80	35	60	1	0	- .7	0	2.0	154	21.8	117	93	53	0	0	0	0
	LANSING	77	50	86	44	64	-1	.3	- .3	.2	.7	54	16.6	77	96	52	0	0	2	0
	MARQUETTE	70	47	83	29	59	3	.7	- .3	.7	1.4	74	24.0	100	95	60	0	2	2	1
	MUSKEGON	74	53	81	43	63	0	.2	- .6	.1	1.9	127	23.7	116	98	64	0	0	3	0
	SAULT STE. MARIE	70	46	79	37	58	1	.5	- .4	.5	3.6	200	23.6	117	94	57	0	0	1	1
MN	ALEXANDRIA	73	56	85	46	65	4	.5	- .1	.5	1.2	86	20.3	103	99	61	0	0	2	0
	DULUTH	69	55	78	41	62	5	.8	.1	.7	1.2	80	21.5	97	90	64	0	0	4	1
	INT'L FALLS	73	52	85	39	63	8	.2	- .7	.1	1.0	59	16.4	84	98	61	0	0	2	0
	MINNEAPOLIS	76	60	86	51	68	6	.7	0	.3	2.5	179	18.6	94	87	62	0	0	4	0
	ROCHESTER	75	61	85	52	68	6	.5	- .2	.4	3.5	233	26.2	121	87	68	0	0	2	0
MS	GREENWOOD	90	56	92	57	78	1	T	- .8	T	.9	60	36.1	--	89	43	5	0	1	0
	JACKSON	88	65	91	57	77	-1	.2	- .5	.2	.3	20	43.1	125	99	52	5	0	1	0
	MERIDIAN	88	67	90	58	77	0	.1	- .8	.1	.8	47	42.3	115	91	51	3	0	1	0
MO	CAPE GIRARDEAU	82	63	84	54	72	-1	0	- .9	0	.6	33	37.0	122	98	62	0	0	0	0
	COLUMBIA	80	62	85	58	71	1	T	- 1.0	T	3.7	195	34.7	132	96	62	0	0	0	0
	KANSAS CITY	80	68	85	65	74	4	.6	- .4	.5	1.0	53	37.3	138	88	63	0	0	2	1
	SAINT LOUIS	81	64	85	59	72	1	T	- .7	T	2.1	162	37.4	145	99	59	0	0	1	0
	SPRINGFIELD	85	64	87	57	74	2	0	- 1.0	0	.7	39	31.0	112	87	48	0	0	0	0
MT	BILLINGS	84	55	93	47	69	8	.1	- .2	.1	.4	67	14.5	136	68	20	3	0	1	0
	GLASGOW	81	49	92	41	65	5	T	- .2	T	.2	40	9.1	106	74	21	2	0	1	0
	GREAT FALLS	77	42	87	34	60	0	T	- .3	T	.1	17	13.0	109	66	20	0	0	1	0
	HAVRE	79	45	90	39	62	3	T	- .3	T	0	0	12.3	134	74	20	2	0	0	0
	HELENA	80	45	93	41	63	5	T	- .2	T	.1	20	9.4	109	60	17	1	0	1	0
	KALISPELL	73	39	86	32	56	0	.3	0	.1	.5	83	14.2	130	98	34	0	1	3	0
	MILES CITY	84	55	96	50	70	7	.2	- .1	.2	.5	83	11.1	102	73	20	3	0	1	0
	MISSOULA	76	40	87	36	58	0	.1	- .2	.1	.2	33	11.6	129	94	28	0	0	2	0
NE	GRAND ISLAND	80	63	92	61	72	5	1.0	.3	.8	1.2	92	29.5	155	89	55	1	0	4	1
	LINCOLN	82	67	88	63	75	7	.8	.1	.5	1.5	100	30.0	138	92	62	0	0	4	0
	NORFOLK	80	62	91	56	71	5	.5	- .1	.3	1.1	85	21.1	107	93	59	1	0	3	0
	NORTH PLATTE	85	55	98	48	70	5	.1	- .4	.1	.1	10	14.4	89	92	37	2	0	2	0
	OMAHA	80	66	86	63	73	6	1.1	.3	.7	1.3	76	25.8	110	91	67	0	0	2	1
	SCOTTSBLUFF	84	55	94	46	69	5	.5	.3	.4	.5	125	18.0	154	78	32	2	0	3	0
	VALENTINE	86	56	101	48	71	6	1.6	1.2	1.6	1.6	200	19.7	134	72	33	2	0	1	1
NV	ELY	78	44	87	31	61	2	.2	.1	.1	.2	100	8.2	132	81	27	0	1	4	0
	LAS VEGAS	92	71	103	64	82	-1	.1	0	T	.1	50	2.7	90	61	24	4	0	3	0
	RENO	86	44	95	29	65	3	0	0	0	0	+100	4.3	91	66	12	4	1	0	0
	WINNEMUCCA	85	42	94	28	64	2	0	- .1	0	0	0	4.7	81	44	11	3	1	0	0
NH	CONCORD	78	45	86	40	62	0	0	- .8	0	.6	40	28.2	118	91	40	0	0	0	0
NJ	ATLANTIC CITY	77	53	86	46	65	-4	0	- .8	0	.6	35	24.1	77	100	54	0	0	0	0
NM	ALBUQUERQUE	84	60	91	53	72	0	.2	0	.1	.2	50	4.6	78	71	30	1	0	3	0
	CLOVIS	89	64	95	60	76	5	T	- .4	T	0	0	12.2	--	68	25	2	0	0	0
	ROSWELL	89	65	95	61	77	4	T	- .3	T	0	0	4.4	49	65	28	2	0	1	0
NY	ALBANY	76	46	85	42	61	-3	T	- .7	T	.1	7	24.7	112	99	45	0	0	0	0
	BINGHAMTON	74	51	81	41	62	0	T	- .7	T	.4	29	26.5	104	94	47	0	0	0	0
	BUFFALO	74	50	83	45	62	-2	T	- .8	T	1.1	69	26.7	114	94	49	0	0	0	0
	NEW YORK	77	62	86	59	69	-1	T	- .8	T	.3	18	26.4	93	84	44	0	0	0	0
	ROCHESTER	75	51	83	44	63	-1	T	- .6	T	.6	50	21.0	97	83	41	0	0	0	0
	SYRACUSE	76	46	82	42	61	-4	T	- .6	T	.5	38	23.6	96	98	46	0	0	1	0
NC	ASHEVILLE	76	54	82	49	65	-4	.2	- .7	.1	.7	39	38.0	117	100	59	0	0	2	0
	CHARLOTTE	80	60	85	55	70	-4	.2	- .7	.2	.3	17	30.3	101	88	46	0	0	1	0
	GREENSBORO	80	56	84	51	68	-4	0	- .9	0	.1	6	33.2	112	94	46	0	0	0	0
	HATTERAS	78	69	81	65	74	-2	T	- 1.4	T	1.0	34	36.1	97	91	67	0	0	0	0
	NEW BERN	80	61	85	54	71	-6	T	- 1.5	T	0	0	30.9	75	91	54	0	0	0	0
	RALEIGH	82	56	85	53	69	-4	0	- 1.0	0	0	0	32.5	105	90	43	0	0	0	0
	WILMINGTON	79	63	82	60	71	-6	.3	- 1.2	.3	2.6	87	42.5	106	88	55	0	0	1	0
ND	BISMARCK	84	53	98	43	69	8	T	- .3	T	.4	57	12.4	95	89	30	3	0	0	0
	FARGO	79	55	89	43	67	6	.1	- .4	.1	.3	27	10.8	68	89	45	0	0	1	0
	GRAND FORKS	81	55	92	42	68	8	T	- .5	T	0	0	13.5	90	93	42	2	0	0	0
	WILLISTON	83	48	93	40	66	6	.2	- .2	.1	.9	129	11.9	99	88	30	3	0	2	0
OH	AKRON-CANTON	76	53	82	48	65	-1	.5	- .2	.4	.9	69	23.4	92	85	45	0	0	2	0
	CINCINNATI	82	60	86	52	71	1	T	- .6	T	.8	67	34.0	118	83	44	0	0	0	0
	CLEVELAND	76	52	86	45	64	-2	.1	- .6	.1	.8	62	22.8	92	91	49	0	0	1	0
	COLUMBUS	79	55	84	48	67	0	T	- .6	T	2.1	175	27.9	100	94	48	0	0	0	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending Sept. 11, 1982

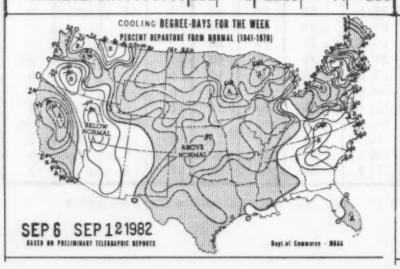
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
															TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Aug. 29	PCT. NORMAL SINCE Aug. 29	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	DAYTON	80	55	83	51	68	-1	T	- .6	T	0	0	32.2	125	91	50	0	0	0	0
	TOLEDO	79	48	88	39	64	-3	.1	- .5	.1	.1	8	18.1	80	99	46	0	0	1	0
	YOUNGSTOWN	76	50	83	43	63	-2	.1	- .6	.1	.4	31	23.5	88	97	48	0	0	1	0
OK	OKLAHOMA CITY	92	65	95	59	79	3	0	- .8	0	0	0	27.7	121	71	31	7	0	0	0
	TULSA	92	68	95	64	80	5	0	- .9	0	.4	22	23.5	89	79	34	7	0	0	0
OR	ASTORIA	69	53	76	48	61	2	1.7	1.2	.8	2.0	200	43.5	123	87	62	0	0	4	2
	BURNS	77	37	88	25	57	-4	T	0	T	.3	300	7.0	96	84	44	0	1	0	0
	MEDFORD	86	48	92	39	67	0	.1	0	.1	.1	50	9.3	82	84	27	3	0	1	0
	PENDLETON	77	52	87	45	64	-2	.4	.3	.3	.5	250	6.3	84	72	30	0	0	2	1
	PORTLAND	74	56	82	50	65	2	.7	.4	.6	1.5	250	23.9	118	88	48	0	0	3	1
	SALEM	76	50	86	45	63	-1	.7	.5	.7	1.0	250	22.4	100	93	41	0	0	2	1
PA	ALLENTOWN	76	55	85	48	66	-1	T	- .9	T	.4	22	35.7	120	89	46	0	0	0	0
	ERIE	73	53	82	47	63	0	.1	- .7	.1	1.1	69	27.2	109	79	53	0	0	1	0
	HARRISBURG	74	58	84	49	66	-4	.1	- .5	.1	.6	46	30.9	106	94	54	0	0	2	0
	PHILADELPHIA	79	59	86	54	69	-1	0	- .8	0	.9	53	31.6	114	92	46	0	0	0	0
	PITTSBURGH	80	56	83	50	68	1	T	- .6	T	.9	75	23.6	91	85	46	0	0	1	0
	SCRANTON	73	53	81	46	63	-2	T	- .7	T	.7	54	29.3	122	94	59	0	0	0	0
RI	PROVIDENCE	77	54	86	49	65	0	0	- .8	0	2.9	171	39.4	143	87	39	0	0	0	0
SC	CHARLESTON	81	68	84	63	74	-2	.9	- .4	.6	1.2	46	36.5	92	91	62	0	0	2	1
	COLUMBIA	82	60	89	52	71	-6	1.4	.2	1.2	2.1	88	41.5	119	95	49	0	0	2	1
	FLORENCE	82	61	85	56	71	-4	.4	- .6	.4	.4	20	31.0	94	95	49	0	0	2	0
	GREENVILLE	80	61	84	56	70	-3	.6	- .4	.5	.7	37	43.1	127	93	51	0	0	2	1
SD	ABERDEEN	80	58	94	51	69	7	--	--	--	--	--	--	--	91	41	1	0	0	0
	HURON	79	61	90	56	70	6	.9	.5	.8	3.0	375	19.1	126	95	58	1	0	2	1
	RAPID CITY	80	55	94	50	67	4	.6	.3	.6	.6	100	19.5	136	84	39	2	0	2	1
	SIOUX FALLS	76	61	85	54	68	5	2.9	2.2	2.7	7.3	521	22.7	116	95	69	0	0	3	1
TN	CHATTANOOGA	82	61	85	56	71	-3	.3	- .5	.3	.5	31	39.3	108	95	48	0	0	1	0
	KNOXVILLE	83	61	85	58	72	-2	T	- .7	T	1.9	146	41.2	125	95	53	0	0	0	0
	MEMPHIS	89	69	91	59	79	3	.2	- .5	.2	.2	13	41.7	119	88	51	3	0	1	0
	NASHVILLE	82	62	84	53	72	-2	.8	0	.8	1.9	119	35.4	108	98	56	0	0	1	1
TX	ABILENE	94	67	95	62	80	2	0	- .5	0	.4	40	16.9	99	57	23	7	0	0	0
	AMARILLO	89	62	97	59	75	3	.2	- .3	.2	.3	30	15.2	100	69	29	4	0	1	0
	AUSTIN	96	71	99	68	84	3	0	- .8	0	1.0	67	17.4	80	76	28	7	0	0	0
	BEAUMONT	89	73	92	67	81	1	.5	- .8	.4	.8	30	42.0	109	90	56	4	0	2	0
	BROWNSVILLE	94	74	98	71	84	1	.2	- 1.0	.1	1.1	50	16.6	108	89	46	7	0	4	0
	CORPUS CHRISTI	95	73	100	70	84	1	.1	- 1.1	.1	.1	4	15.3	81	87	43	7	0	2	0
	DEL RIO	95	71	98	69	83	1	T	- .7	T	.4	33	8.6	75	74	30	7	0	0	0
	EL PASO	91	66	99	62	78	2	.5	.2	.5	.7	140	3.4	61	64	28	5	0	1	0
	FORT WORTH	93	67	96	63	80	0	0	- .7	0	0	0	29.8	132	65	28	6	0	0	0
	GALVESTON	87	77	91	75	82	1	.3	- 1.1	.2	1.3	48	20.0	71	88	63	1	0	2	0
	HOUSTON	93	70	95	63	81	0	0	- 1.1	0	1.0	48	23.2	72	90	39	7	0	0	0
	LUBBOCK	91	62	94	60	77	3	.3	- .2	.3	.3	30	16.5	120	68	29	5	0	1	0
	MIDLAND	94	66	96	64	80	2	T	- .3	T	0	0	10.1	103	64	23	7	0	0	0
	SAN ANGELO	93	62	96	59	77	-2	T	- .6	T	0	0	15.0	124	76	28	7	0	0	0
	SAN ANTONIO	95	68	98	63	82	1	.1	- .8	.1	.1	6	12.5	68	83	25	7	0	1	0
	VICTORIA	96	72	99	68	84	2	T	- 1.1	T	.3	15	18.1	79	86	35	7	0	0	0
	WACO	97	64	98	58	81	0	0	- .7	0	0	0	21.8	102	75	27	7	0	0	0
	WICHITA FALLS	96	63	99	60	80	0	0	- .7	0	.6	46	31.0	162	84	25	7	0	0	0
UT	BLANDING	79	53	84	51	66	1	.8	.6	.4	.8	160	10.1	120	81	46	0	0	2	0
	CEDAR CITY	78	54	85	44	66	1	.5	.3	.2	.5	125	10.6	154	83	33	0	0	4	0
	SALT LAKE CITY	83	58	90	47	70	3	1.2	1.0	1.2	1.3	325	12.5	120	75	27	2	0	2	1
VT	BURLINGTON	77	49	86	42	63	2	.1	- .7	.1	.5	31	23.2	101	84	38	0	0	1	0
VA	NORFOLK	77	61	83	57	69	-5	0	- 1.1	0	0	0	33.6	104	89	53	0	0	0	0
	RICHMOND	80	58	84	55	69	-3	0	- .9	0	0	0	35.0	113	98	57	0	0	0	0
	ROANOKE	79	53	82	48	66	-4	0	- .8	0	.2	12	32.1	118	98	48	0	0	0	0
WA	COLVILLE	73	48	65	37	60	0	.4	.2	.3	.6	150	12.2	118	84	45	0	0	3	0
	QUILLAYUTE	67	51	74	43	59	1	3.0	2.1	1.5	3.7	218	70.0	122	99	67	0	0	6	2
	SEATTLE-TACOMA	70	54	78	49	62	1	.7	.3	.6	1.0	143	22.5	108	93	52	0	0	3	1
	SPOKANE	74	49	85	41	62	0	.8	.6	.5	.9	300	10.3	99	82	34	0	0	2	0
	YAKIMA	77	47	85	40	62	-2	.1	0	.1	.2	100	5.4	113	85	36	0	0	1	0
WV	BECKLEY	74	53	77	48	64	-1	0	- .8	0	1.4	82	33.5	108	100	53	0	0	0	0
	CHARLESTON	82	57	86	50	69	-1	0	- .7	0	.9	64	32.0	107	96	49	0	0	0	0
	HUNTINGTON	78	55	83	49	67	-3	0	- .7	0	1.0	71	32.1	111	100	54	0	0	0	0
	PARKERSBURG	80	59	84	52	69	0	0	- .7	0	.8	57	27.1	86	96	45	0	0	0	0
WI	GREEN BAY	73	53	82	45	63	2	.1	- .6	.1	1.3	93	20.1	105	95	62	0	0	1	0
	LA CROSSE	77	61	87	51	69	4	.3	- .5	.2	1.8	113	16.1	72	99	68	0	0	2	0
	MADISON	76	53	86	41	65	3	T	- .8	T	1.4	88	21.1	96	98	60	0	0	2	0
	MILWAUKEE	76	55	86	46	66	2	T	- .7	T	.3	21	23.9	114	92	58	0	0	2	0
	WAUSAU	72	53	83	41	62	2	.9	0	.6	1.8	100	26.0	111	94	64	0	0	2	1
WY	CASPER	80	51	90	41	66	4	.7	.4	.3	.7	175	12.4	146	80	29	1	0	2	0
	CHEYENNE	75	48	84	41	62	1	.5	.3	.5	.5	100	14.4	125	86	39	0	0	5	0
	LANDER	78	52	88	40	65	4	.1	- .1	.1	.1	25	6.7	66	60	23	0	0	1	0
	SHERIDAN	86	49	96	42	67	7	.4	.1	.4	.4	67	10.0	83	73	21	3	0	2	0
PR	SAN JUAN	91	78	92	77	85	4	.1	- 1.4	.1	1.6	52	31.5	81	83	62	7	0	1	0

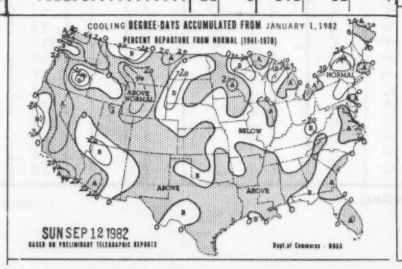
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

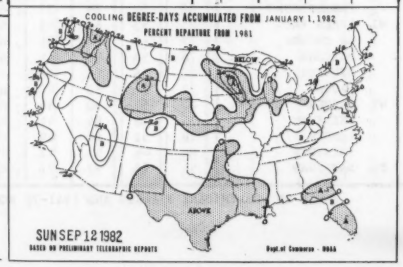
COOLING DEGREE DAYS (BASE 65°) FOR WEEK ENDING SEP. 12, 1982.

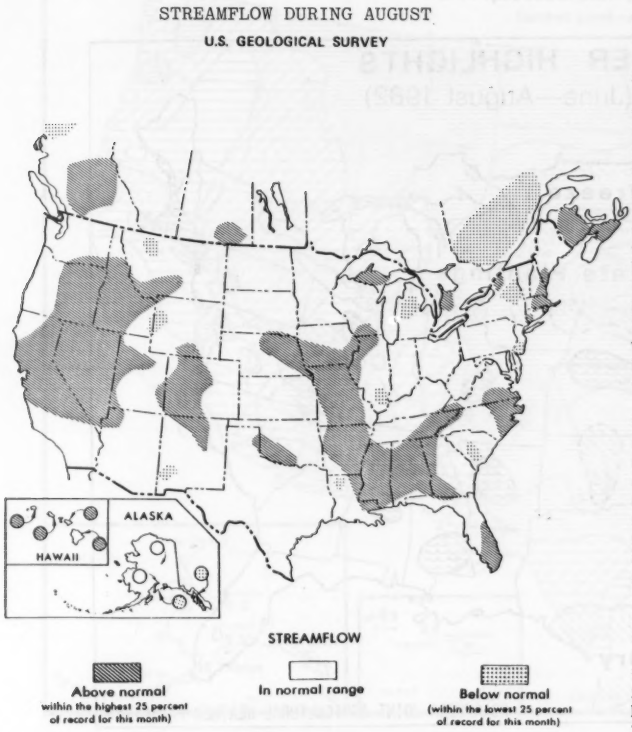
BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN. 1, 1982

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1981-82
ALA. BIRMINGHAM	67	- 8	1707	- 4	- 156
MOBILE	96	- 2	2202	- 9	- 112
MONTGOMERY	91	2	2116	173	- 32
ARIZ. FLAGSTAFF	10	9	90	- 50	- 167
PHOENIX	140	- 5	3558	621	- 427
TUCSON	85	- 32	2226	133	- 358
WINSLOW	34	- 12	983	137	- 236
YUMA	158	- 11	3487	72	- 471
ARK. FORT SMITH	86	9	1644	- 165	- 48
LITTLE ROCK	87	15	1839	100	- 72
CALIF. BAKERSFIELD	132	39	2422	548	- 66
EUREKA	0	0	0	0	0
FRESNO	97	24	1569	103	615
LOS ANGELES	39	4	481	30	285
RED BLUFF	111	28	1491	169	564
SAN DIEGO	62	20	786	245	391
SAN FRANCISCO	13	3	58	22	47
STOCKTON	83	24	1081	23	530
COLO. DENVER	25	7	612	10	240
GRAND JUNCTION	34	4	1217	143	83
PUEBLO	31	2	991	41	198
CONN. BRIDGEPORT	12	- 14	522	- 171	- 139
HARTFORD	16	2	595	22	142
DEL. WILMINGTON	34	- 1	971	44	58
D.C. WASHINGTON	58	5	1322	19	250
FLA. APALACHICOLA	87	- 17	2100	- 80	- 4
DAYTONA BEACH	108	0	2432	34	47
FORT MYERS	121	5	2526	53	162
JACKSONVILLE	99	- 3	2552	28	46
KEY WEST	132	- 1	3857	263	491
LAKELAND	110	2	2581	24	226
MIAMI	137	18	3460	504	264
ORLANDO	121	9	2774	282	141
TALLAHASSEE	97	- 5	2159	4	104
TAMPA	115	3	2668	84	202
WEST PALM BEACH	137	18	3204	423	292
GA. ATLANTA	38	- 26	1527	- 104	- 312
AUGUSTA	57	- 19	1762	- 12	- 25
MACON	71	- 17	1981	- 35	- 45
SAVANNAH	81	- 8	2078	- 80	- 110
IDAHO. BOISE	24	2	608	73	3
LEWISTON	29	- 6	817	180	86
POCATELLO	9	0	397	- 45	- 60
ILL. CAIRO	78	16	1604	- 40	- 67
CHICAGO	27	11	668	34	2
MOLINE	42	21	793	60	53
PEORIA	41	15	871	47	53
ROCKFORD	29	12	726	36	66
SPRINGFIELD	53	19	1020	26	- 101
IND. EVANSVILLE	61	16	1224	- 50	- 101
FORT WAYNE	20	- 3	639	26	64
INDIANAPOLIS	48	17	889	26	56
SOUTH BEND	32	13	640	23	26
IOWA. BURLINGTON	45	20	878	65	48
DES MOINES	59	35	916	92	46
DUBUQUE	34	22	578	72	44
SIOUX CITY	43	23	809	62	21
KANS. CONCORDIA	62	19	1295	70	140
DODGE CITY	98	41	1417	101	181
GOODLAND	33	6	798	85	112
TOPEKA	66	21	1100	175	116
WICHITA	107	49	1504	361	117
KY. LEXINGTON	47	4	997	118	- 26
LOUISVILLE	53	8	1072	105	290
LA. BATON ROUGE	107	8	2563	363	269
LAKE CHARLES	100	3	2283	10	37
NEW ORLEANS	100	2	2499	239	30
SHREVEPORT	102	3	2225	44	235
MAINE. CARIBOU	3	3	155	27	20
PORTLAND	11	6	248	- 4	24
MD. BALTIMORE	38	1	991	44	155
MASS. BOSTON	24	5	622	15	195
MICH. ALPENA	19	19	204	- 7	35
DETROIT	17	1	504	121	76
FLINT	21	12	469	44	16
GRAND RAPIDS	27	14	573	12	37
HOUGHTON LAKE	16	13	536	14	9
LANSING	27	14	567	14	14
MARQUETTE	25	23	436	21	31
MUSKEGON	11	11	437	21	14
S. STE. MARIE	15	15	57	82	17
MINN. DULUTH	17	17	113	63	41
INTERNATL FALLS	21	21	180	4	100
MINNEAPOLIS	29	29	206	130	227
ROCHESTER	30	30	545	79	163
ST. CLOUD	23	19	463	37	81
MISS. JACKSON	91	1	2209	182	29
MERIDIAN	97	12	2127	165	92
MO. COLUMBIA	56	15	1007	180	135
KANSAS CITY	68	27	1134	60	11
ST. LOUIS	62	12	1260	104	55
SPRINGFIELD	75	28	1376	108	64
MONT. BILLINGS	35	22	669	182	26
GLASGOW	21	10	440	8	114
GREAT FALLS	16	3	216	106	92
HAVRE	12	2	265	93	44
HELENA	5	2	354	103	52
KALISPELL	0	- 4	105	1	62
MILES CITY	46	21	741	17	38
MISSOULA	0	- 5	191	3	29
NEBR. GRAND ISLAND	40	11	807	186	105
LINCOLN	66	35	1056	196	35
NORFOLK	35	12	768	124	105
NORTH PLATTE	20	5	718	71	49
OMAHA	66	33	945	167	49
VALENTINE	43	26	788	67	58
NEV. ELY	0	- 7	204	- 1	- 120
LAS VEGAS	105	- 16	2507	- 72	- 586
RENO	22	15	422	98	37
WINNEMUCCA	6	- 2	469	70	109
N.H. CONCORD	13	6	301	- 46	- 98
N.J. ATLANTIC CITY	22	8	873	50	- 58
TRENTON	34	3	848	64	114
N.MEX. ALBUQUERQUE	42	- 8	1294	- 52	- 55
ROSWELL	76	24	1679	227	189
N.Y. ALBANY	7	7	333	- 227	- 116
BINGHAMTON	12	3	295	- 65	- 97
BUFFALO	15	3	361	- 64	- 177
NEW YORK	44	7	809	175	324
ROCHESTER	17	3	423	- 92	- 131
SYRACUSE	4	- 12	303	- 225	- 356
N.C. ASHEVILLE	8	- 22	860	- 47	- 66
CHARLOTTE	42	- 19	1428	- 15	3
GREENSBORO	29	- 18	1165	- 80	- 142
HATTERAS	66	- 6	1391	- 64	- 70
RALEIGH	38	- 15	1430	- 147	- 188
WILMINGTON	46	- 34	1544	- 176	- 99
N.DAK. BISMARCK	42	32	397	- 85	- 44
FARGO	30	22	440	- 31	9
WILLISTON	23	14	532	- 115	- 185
OHIO. AKRON-CANTON	22	3	587	- 16	- 77
CINCINNATI	54	16	898	- 108	- 85
CLEVELAND	25	6	602	- 22	6
COLUMBUS	28	3	669	- 98	- 38
DAYTON	26	4	748	- 130	- 126
TOLEDO	22	3	591	- 62	7
YOUNGSTOWN	12	- 3	411	- 88	- 183
OKLA. OKLAHOMA CITY	104	34	1691	- 5	- 81
TULSA	118	46	2079	334	128
OREG. ASTORIA	0	0	11	- 3	- 31
BURNS	0	- 7	158	- 131	- 21
MEDFORD	21	1	646	- 113	- 60
PENDLETON	19	- 2	645	- 15	110
PORTLAND	16	5	392	- 106	- 24
SALEM	6	- 1	284	- 51	- 28
PA. ALLENTOWN	20	3	564	- 170	- 230
ERIE	23	12	453	- 92	- 105
HARRISBURG	42	6	728	- 240	- 170
PHILADELPHIA	41	3	654	- 77	- 109
PITTSBURGH	24	5	521	- 93	- 96
SCRANTON	10	- 6	421	- 158	- 198
R.I. PROVIDENCE	22	7	545	- 28	- 188
S.C. CHARLESTON	72	- 10	1863	- 57	- 237
COLUMBIA	48	- 32	1717	- 135	- 18
GREENVILLE	44	- 16	1291	- 142	- 257
S.DAK. ABERDEEN	36	25	667	- 104	- 92
HURON	31	15	719	- 14	156
RAPID CITY	31	14	450	- 182	- 76
SIOUX FALLS	22	6	634	- 71	- 172
TENN. CHATTANOOGA	49	- 13	1417	- 71	- 152
KNOXVILLE	57	- 3	1276	- 144	- 292
MEMPHIS	100	26	2123	- 305	- 17
NASHVILLE	60	- 4	1424	- 117	- 35
TEXAS. ABILENE	112	21	2246	- 80	- 25
AMARILLO	68	21	1300	- 23	130
AUSTIN	138	22	2780	- 312	- 246
BEAUMONT	117	9	2418	- 88	- 36
BROWNSVILLE	137	13	3535	- 45	- 365
CORPUS CHRISTI	134	13	3266	- 54	- 164
DEL RIO	127	7	2866	- 1	- 348
EL PASO	85	- 8	2054	- 194	- 27
FORT WORTH	118	- 15	2334	- 95	- 104
GALVESTON	122	6	2508	- 100	- 9
HOUSTON	124	15	2690	- 287	- 62
LUBBOCK	84	- 28	1605	- 80	- 288
MIDLAND	101	- 16	2020	- 39	- 124
SAN ANGELO	89	- 7	2055	- 312	- 200
SAN ANTONIO	125	- 14	2596	- 49	- 38
VICTORIA	137	- 24	2831	- 245	- 262
WACO	124	- 14	2611	- 162	- 222
WICHITA FALLS	111	- 11	2082	- 222	- 165
UTAH. SALT LAKE CITY	40	9	1025	- 149	- 67
VT. BURLINGTON	19	12	332	- 61	- 145
VA. LYNCHBURG	36	- 1	993	- 33	- 128
NORFOLK	38	- 22	1260	- 55	- 137
RICHMOND	38	- 12	1279	- 16	- 136
ROANOKE	18	- 19	910	- 54	- 124
WASH. QUILLAYUTE	0	0	16	- 8	- 28
SEATTLE-TACOMA	4	- 1	152	- 28	- 32
SPOKANE	11	- 1	481	- 29	- 153
WALLA WALLA	14	- 16	597	- 176	- 167
YAKIMA	8	- 5	463	- 5	- 44
W. VA. BECKLEY	8	- 6	376	- 86	- 94
CHARLESTON	41	- 5	894	- 98	- 128
HUNTINGTON	26	- 11	731	- 300	- 353
PARKERSBURG	43	- 8	986	- 14	- 38
WIS. GREEN BAY	22	- 20	348	- 38	- 32
LACROSSE	43	- 31	714	- 37	- 40
MADISON	25	- 20	389	- 65	- 96
MILWAUKEE	26	- 17	394	- 48	- 57
WYO. CASPER	20	- 6	548	- 102	- 52
CHEYENNE	8	- 1	297	- 25	- 9
LANDER	18	- 8	553	- 177	- 67
SHERIDAN	30	- 19	539	- 101	- 90


COOLING DEGREE-DAYS FOR THE WEEK
PERCENT DEPARTURE FROM NORMAL (1941-1970)
BELOW NORMAL
ABOVE NORMAL
SEP 6 SEP 12 1982
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA


COOLING DEGREE-DAYS ACCUMULATED FROM JANUARY 1, 1982
PERCENT DEPARTURE FROM NORMAL (1941-1970)
ABOVE NORMAL
BELOW
SUN SEP 12 1982
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA





Streamflow across most of the Nation was normal to well-above normal during August for the third straight month, according to the U.S. Geological Survey (USGS), U.S. Department of the Interior.

Combined flow of the Nation's "Big Five" rivers--Mississippi, St. Lawrence, Columbia, Missouri, and Ohio--averaged 652 billion gallons a day (bgd), or 22 percent above normal, during August, the third consecutive month that it has been 20 percent or more above normal.

The "Big Five" rivers, which together drain more than half of the conterminous United States, provide a quick check on the Nation's water-resource conditions.

During August, 35 percent of the 164 key index gaging stations across the Nation reported well-above-normal streamflow conditions. The high streamflows extended along a broad band from northeastern Nebraska southeast to western Georgia and from southwestern Montana to central California.

USGS, working in cooperation with Federal, State, and local officals across the country, compiled the following highlights of water-resource conditions during August:

*"Big Five"--Individual flows: Mississippi River at Vicksburg, Miss., 278 bgd, 31 percent above normal, but 27 percent below July; St. Lawrence River at Massena, N.Y., 179 bgd, 5 percent above normal, but 5 percent below July; Columbia River at The Dalles, Ore., 108 bgd, 13 percent above normal but 53 percent below July; Missouri River at Hermann, Mo., 67 bgd, 85 percent above normal but 23 percent below July; and the Ohio River at Louisville, Ky., 20 bgd, 15 percent below normal and 38 percent below July.

*East Coast--Streamflow along most of the east coast remained normal during August. Ground-water levels in most States declined seasonally but generally remained above the levels reported at the same time last year. In New England, 45 of the 59 key index wells showed ground-water levels above normal for this time of year, and 7 wells equaled or exceeded previous record high water levels for August. The water level in the index well at East Bridgewater, Mass., stood at 8.6 feet below the land surface, 3.6 feet above the normal August level. Combined storage of the major reservoirs that supply New York City was 84 percent of full capacity on August 23. Normal for this time of year is 84.4 percent. Along the Mid-Atlantic States, total inflow to the Chesapeake Bay totaled about 17 bgd, 13 percent below normal. Further South, ground-water levels in North Carolina were about 1 to 2.5 feet above normal and from 2 feet below to 4 feet above the levels reported at the same time last year.

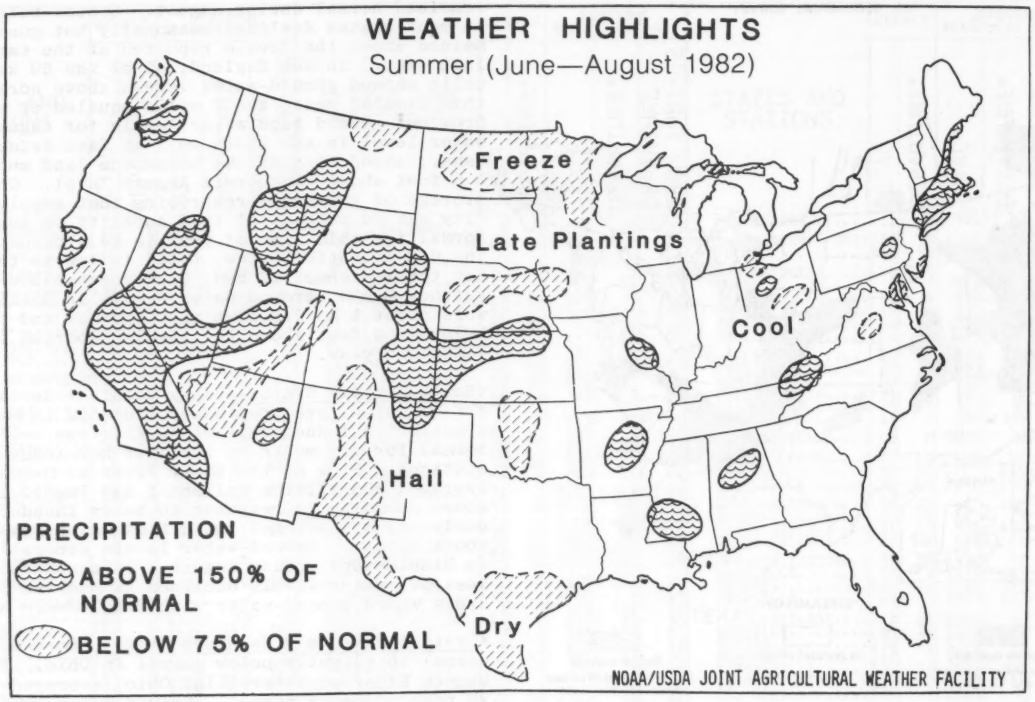
*South-Central States--Heavy rainfall during the middle of August produced heavy flooding in several counties in Tennessee. Streamflow was well-above normal for the month on the four key index gaging stations. Flow of the Emory River at Oakdale, Tenn., averaged 333 million gallons a day (mgd), 237 percent above normal. In response to heavy thunderstorms in early August, streamflow in Mississippi was also well-above normal. Ground-water levels generally declined in Mississippi during August. In northeastern Mississippi, water levels declined as much as 5 feet in areas where ground-water withdrawals were heavy.

*Great Lakes and Midwestern States--Streamflow was normal to slightly below normal in Ohio. Flow of the Maumee River at Waterville, Ohio, averaged 316 mgd, 20 percent below normal. Ground-water levels in Ohio generally declined and were below normal for the month. Further North, flow of the Muskegon River at Evart, Mich., averaged only 292 mgd, 13 percent below normal and the first time since January 1981 that flow of the Muskegon River has been below normal. Streamflow conditions in Illinois ranged from well above normal in the north to well below normal in the south. Flow of the Pecatonica River at Freeport, Ill., averaged 801 mdg, 123 percent above normal, while flow of the Skillet Fork River at Wayne City, Ill., averaged only 3.3 mgd, 78 percent below normal for August. Streamflow was normal to well above normal in Minnsota, as it generally has been during much of the past year. Storage at the end of August in the Mississippi River Headwater System is 2 percent above average, but only 35 percent of its full capacity.

*West Coast States--Streamflow conditions along the West Coast were generally normal during August. In northern California, streamflow was above normal, with the flow of the Sacramento River at Verona, Calif., averaging 11.5 bgd, 67 percent above normal. Combined storage of the 10 key index reservoirs in northern and central California increased during August and was 45 percent above average for the month and 33 percent above the storage level at this time last year. Ground-water levels in the key index wells in Los Angeles and Santa Barbara counties in southern California were below normal. The level in one key index well dropped 3 feet since July and is about 33 feet below normal for this time of year. Storage in the five major reservoirs reporting in Washington were 96 to 105 percent of the long-term average. In Nevada, heavy rains produced local flash floods throughout the State. The rainfall helped boost reservoir levels to above normal levels, and streamflows on the Walker, Humboldt, and Virgin Rivers were all above normal.

Summer Weather Review

(JUNE, JULY, AND AUGUST)

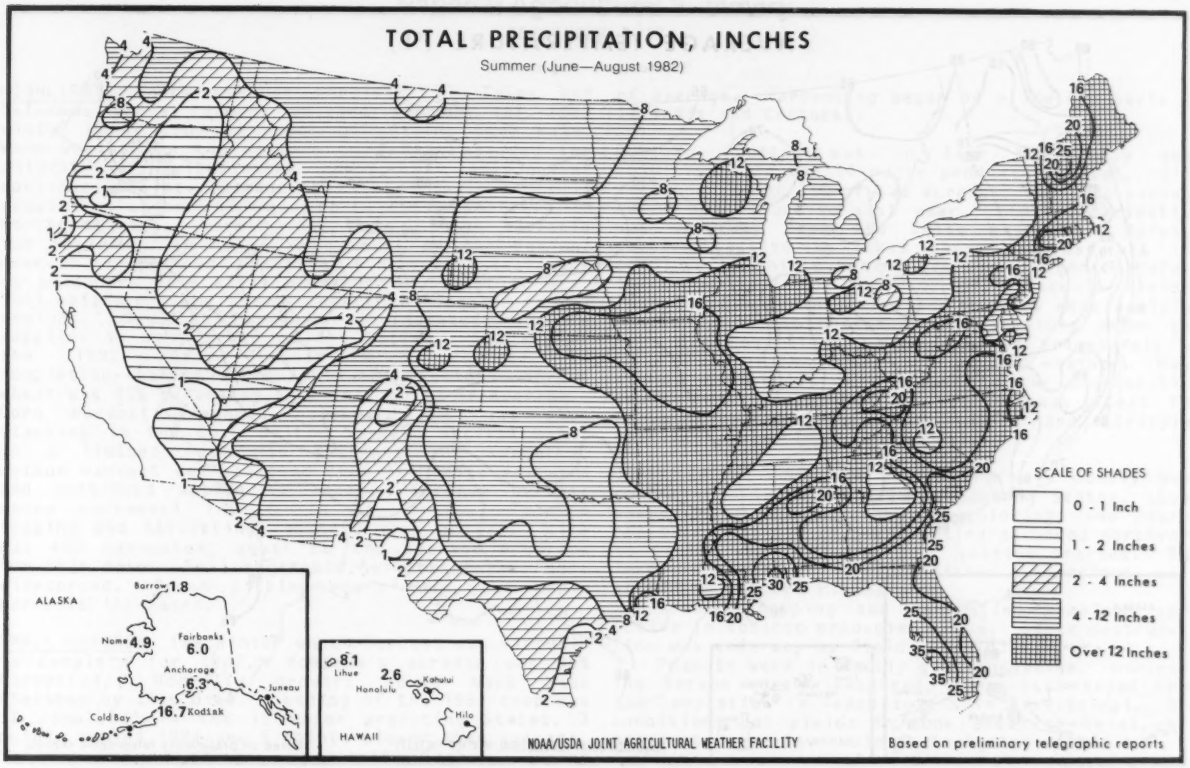


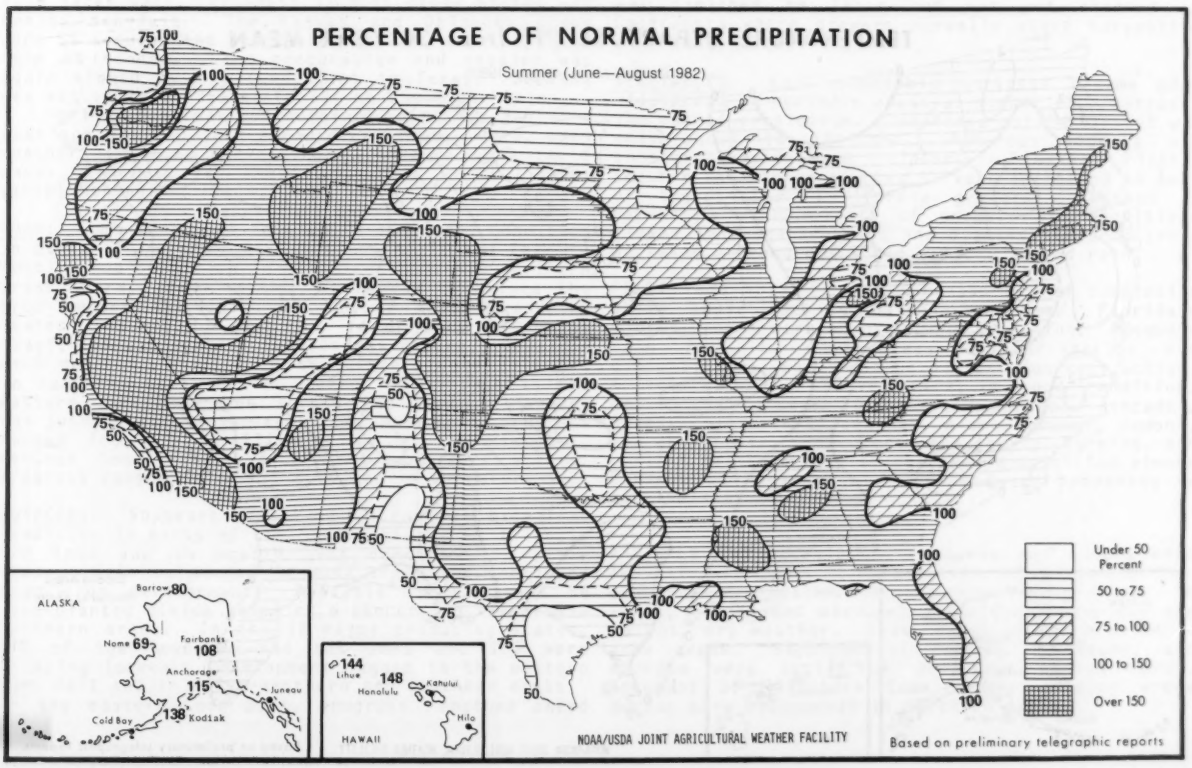
HIGHLIGHTS: Precipitation accumulated to near normal amounts in most parts of the Nation. Notable exceptions were parts of the northern Plains, eastern Oklahoma, southern Texas, and isolated parts of the East Coast States. An area from eastern New Jersey through Maryland, and into Virginia was getting quite dry. Unusually frequent thunderstorms with hail in western Texas damaged some crops. Cooler-than-normal temperatures in most of the East delayed crop development, but several days of unusually warm weather in the western Corn Belt may have affected some corn pollination.

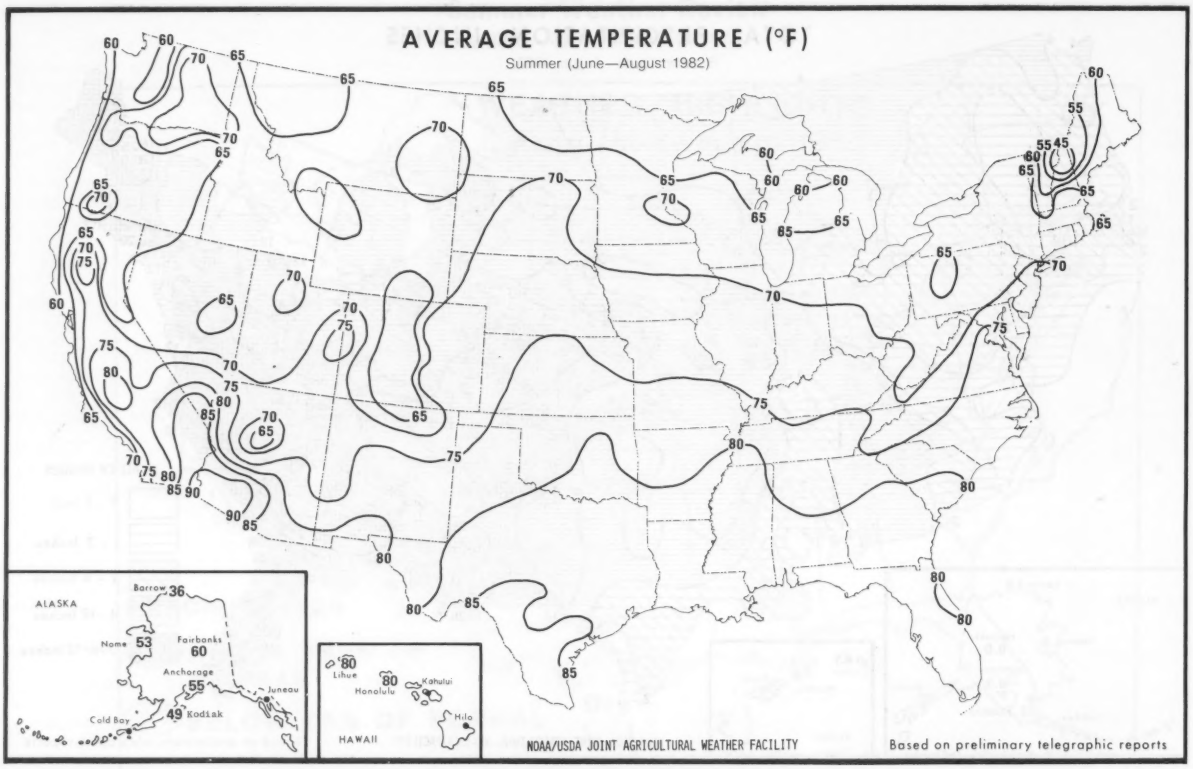
JUNE...Heavy rain from thunderstorms concentrated mostly in the central and southern Plains and in the East Coast and Gulf Coast States. Nearly continuous rain in Kansas and parts of Texas delayed winter wheat harvest and planting of spring crops in Missouri. Abundant rain along most of the east coast replenished soil moisture in some areas but fell short in central Georgia. A tropical storm formed and dissipated in the southeastern Gulf of Mexico but spread heavy rain over the southeastern gulf coast. Timely showers fell over the western Corn Belt, allowing rapid progress in planting which had been delayed. An unusual number of hail-storms in the cotton area of western Texas damaged some crops. Temperatures were much cooler than normal over most of the Nation. Average temperatures of 4 to 6° cooler than normal in the Corn Belt slowed crop development.

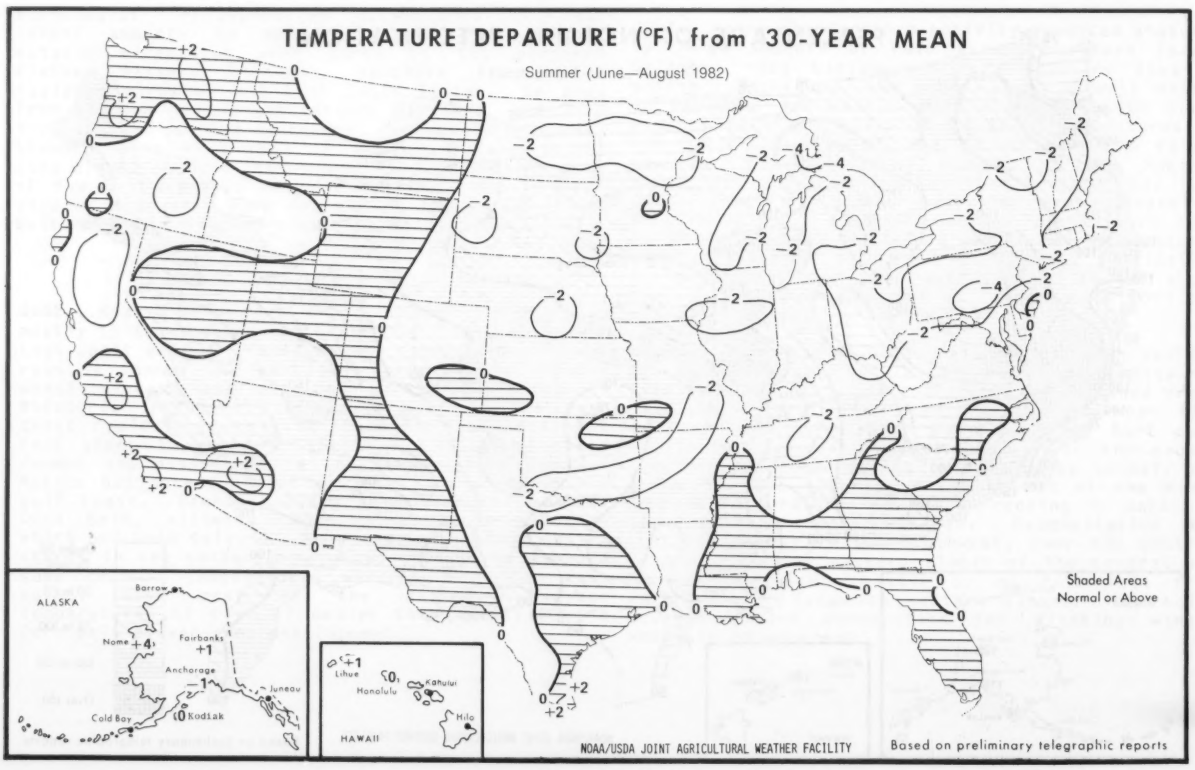
JULY...Heavy thunderstorm activity produced unusually large amounts of rain through western Texas, Oklahoma, and Kansas and from southern Iowa to southern Michigan. The rain caused harvest delays in Oklahoma and Kansas and washed out some newly planted corn and beans in Iowa. Thunderstorms in the Southwest were unusual so early in the season as were the widespread showers in the Pacific Northwest. Many of the East Coast States had less than normal rain, and many dry areas began to develop. Heavy rain in Georgia replenished soil moisture but delayed fieldwork. Normal temperatures in the eastern Corn Belt aided early pollinating corn, and temperatures averaging 2 to 4° above normal spurred development of late-planted corn and beans in the western Corn Belt.

AUGUST...The month began with warm air pushing northward through the Plains and spreading eastward over the Corn Belt. The warm weather hastened crop development, but afternoon temperatures near 100° in parts of the western Belt may have hurt some pollinating corn. A cold outbreak in the second week dropped temperatures to well below normal, and a second cold outbreak near the end of the month dropped temperatures to below freezing in parts of the northern border States. Precipitation was unusually heavy in the Southwest, over the central Plateau, and the eastern slopes of the central and northern Rockies. Little or no rain fell from north-central Texas to western Kansas. Dry soils delayed ground preparation for planting winter wheat in these areas.


TOTAL PRECIPITATION, INCHES
Summer (June—August 1982)
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 12 Inches
Over 12 Inches
ALASKA
Barrow 1.8
Nome 4.9
Fairbanks 6.0
Anchorage 6.3
Juneau
Cold Bay 16.7
Kodiak
HAWAII
8.1 Lihue
2.6 Honolulu
Kahului
Hilo
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
Summer (June—August 1982)
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow 80
Nome 69
Fairbanks 108
Anchorage 115
Juneau
Cold Bay 138
Kodiak
HAWAII
144 Lihue
148 Honolulu
Kahului
Hilo
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


AVERAGE TEMPERATURE (°F)
Summer (June—August 1982)
ALASKA
Barrow 36
Nome 53
Fairbanks 60
Anchorage 55
Juneau
Cold Bay
49 Kodiak
HAWAII
Lihue 80
Honolulu 80
Kahului
Hilo
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports


TEMPERATURE DEPARTURE (°F) from 30-YEAR MEAN
Summer (June—August 1982)
ALASKA
Barrow
Nome +4
Fairbanks +1
Anchorage −1
Juneau
Cold Bay
0 Kodiak
HAWAII
Lihue +1
Honolulu 0
Kahului
Hilo
Shaded Areas
Normal or Above
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary telegraphic reports

National Agricultural Summary

SEPTEMBER 7-12

HIGHLIGHTS: Dry weather persisted in Texas and Oklahoma where farmers delayed seeding the 1983 winter wheat crop in hopes of getting some rain. Warm weather in the western Corn Belt speeded the maturity of late-planted crops, but development continues to lag. Damage from an early frost still remains a concern to many growers, especially in northern areas. Farmers had 5 to 7 days suitable for fieldwork in nearly all areas of the Nation. However, in Missouri less than 4 days were available as producers were still waiting for fields to dry. Soil moisture supplies were short to adequate in all regions. Dry, hot weather deteriorated moisture supplies in many areas of the Nation. Seeding of the 1983 winter wheat crop reached 9% completion--behind schedule in most States. Spring wheat was 89% harvested, 2 points ahead of average. Corn harvest advanced northward and was just starting in the Corn Belt. Soybean harvest began on a limited basis in Illinois and Kentucky. Cotton harvest was starting from the Delta eastward and continued active in Texas. Sorghum harvest moved northward into parts of Kansas. Tobacco topping and harvesting remained very active. Rice was 40% harvested, equal to the average progress for this date. Fall vegetable harvests became more widespread. Peach picking wound down, but apple harvests increased.

SMALL GRAINS: The winter wheat harvest was virtually complete for 1982. Montana's acreage was 95% harvested. Normally growers would have been finished by this date. Seeding of the 1983 crop was 9% completed in the 15 major producing States, 3 points behind 1981 and 5 points slower than average. Seeding was underway in all States except California, Illinois, Missouri, and Ohio. Growers in these areas normally begin seeding winter wheat at a later date. Progress in most other States was behind schedule. The Kansas and Oklahoma crops were 5% seeded, the Nebraska crop 20%, and the Texas crop 8% seeded. Land preparation and seeding was again slowed by dry conditions in Texas. Seeding was active in irrigated fields on the High Plains.

Spring wheat was 89% combined, 8 points behind a year ago but 2 points ahead of average. Warm, open weather permitted harvesting to advance at a rapid pace. Progress was ahead of normal in all States except Montana.

CORN: Corn continued in good to excellent condition in parts of the Corn Belt and Southeast and fair to mostly good condition in other regions. In northern areas, warm, sunny weather is needed to mature the crop before a frost. In the 17 major producing States, 94% of the corn was in or past the dough stage, 75% was dented, and 32% was mature. Development generally lagged in the western Corn Belt and in northern areas but was ahead of average in the eastern Corn Belt and across the South. Harvest was just getting underway in the Corn Belt; progress ranged from 2% in Illinois to 9% in Missouri. Farther South, harvesting continued very active; progress ranged up to 77% complete in Georgia.

SOYBEANS: Soybeans continued in good to excellent condition in parts of the Southeast and in Illinois and Iowa and in mostly good condition in other areas. Rain is needed in many areas for continued good crop development. Possible frost damage to late-planted fields remained a concern to farmers in northern areas. In the 18 major producing States, 97% of the soybeans had set pods and 17% were dropping leaves. Development lagged in the western Corn Belt and in a few northern and southern areas. In the eastern Corn Belt, progress remained ahead of average. Harvesting began on a limited basis in Illinois and Kentucky.

COTTON: Cotton was in fair to mostly good condition. In the 14 major producing States, bolls were opening on 38% of the acreage, equal to average but 6 points behind last year. Limited harvesting was underway from the Delta eastward. Harvest remained active in Texas where progress was 16% complete, 2 points behind average. Recent rainfall increased boll rot in many of Arizona's fields. Insect activity increased and growers were applying controls. Texas cotton matured rapidly under the hot, dry conditions. Bolls opened prematurely in some areas of the Plains due to dry weather. Many stands shed bolls in response to the drought-like conditions. However, the weather was ideal for harvesting, and most defoliation and stripping operations made good progress.

OTHER CROPS: Sorghum was in fair to mostly good condition. In the 7 major producing States, about one-half of the acreage was coloring, and nearly one-third was mature. Harvesting advanced northward to Kansas where it was just getting started. The Texas harvest was 67% finished. Combines were active in the Low Plains area.

Tobacco topping and harvesting remained very active in tobacco producing areas. Stalk destruction was underway as fields were picked.

Peanuts were in mostly good condition. Harvesting became more widespread. Progress ranged from 11% completion in Texas to 28% in Mississippi. Dry conditions cut yields in some areas of Texas, but prospects were favorable on irrigated stands.

Rice harvest gained momentum, reaching 40% complete in the 5 major producing States, equal to the average but 5 points behind last year. Harvest was finished in Texas but not yet started in California where growers normally start harvesting at a later date.

VEGETABLES: Fall vegetable harvests became more widespread in northern areas as summer crop harvesting neared completion. The Maine potato harvest was only about 5% finished. Numerous showers and thunderstorms delayed fieldwork in Florida. Planting for the winter quarter harvest increased in much of the State. California growers continued to harvest a wide variety of crops. Dry conditions slowed land preparations and planting in some areas of Texas. Producers would welcome a good rain.

FRUITS AND NUTS: Peach harvests neared completion while apple picking gained momentum. Florida's citrus groves were in excellent condition. Adequate rain fell in most areas and irrigation was discontinued. Early citrus harvest was very active. Arizona's citrus groves were in good condition. California growers harvested apples, avocados, grapes, nectarines, peaches, plums, prunes, lemons, and grapefruit. Producers were laying, turning, and rolling raisin grapes so they would dry. The almond harvest was active, and growers were preparing to pick walnuts.

PASTURES AND LIVESTOCK: Pastures and ranges were in fair to good condition in most areas, but continued dry weather limited growth of grasses. In Texas, ranges and pastures deteriorated rapidly due to hot, dry weather. Grass fires were a problem in some areas. Supplemental feeding increased, and markets were active as producers culled herds. Movement of livestock from summer grazing areas became more widespread in northern areas.

CROP PROGRESS

FOR WEEK ENDING SEPT 12

CORN
% DENT

	1982	1981	AVG.
COLO	52	51	60
GA	100	100	NA
ILL	95	80	90
IND	100	60	90
IOWA	67	81	86
KANS	70	75	80
KY	95	85	90
MICH	70	75	65
MINN	73	73	78
MO	86	89	87
NEBR	50	70	80
N C	95	99	97
OHIO	99	60	75
PA	60	70	65
S DAK	49	62	78
VA	88	93	NA
WIS	40	61	66
17 STATES	75	74	NA
EXCL. STATES WITH NA	74	73	82

CORN
% MATURE

	1982	1981	AVG.
COLO	6	12	10
GA	99	99	NA
ILL	60	27	60
IND	50	10	35
IOWA	15	23	42
KANS	30	40	45
KY	48	43	44
MICH	30	19	18
MINN	7	11	25
MO	38	46	47
NEBR	3	15	30
N C	90	88	87
OHIO	60	20	30
PA	4	16	13
S DAK	26	21	38
VA	70	83	NA
WIS	12	29	51
17 STATES	32	26	NA
EXCL. STATES WITH NA	30	23	40

CORN
% DOUGH

	1982	1981	AVG.
COLO	88	88	82
GA	100	100	NA
ILL	100	100	100
IND	100	90	100
IOWA	91	97	99
KANS	96	97	98
KY	100	98	100
MICH	100	100	100
MINN	96	98	97
MO	100	100	98
NEBR	90	95	99
N C	99	100	100
OHIO	100	90	100
PA	93	97	95
S DAK	84	71	93
VA	97	96	NA
WIS	71	95	90
17 STATES	94	95	NA
EXCL. STATES WITH NA	94	95	98

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.

NA - NOT AVAILABLE

COTTON
% BOLLS OPENING

	1982	1981	AVG.
ALA	50	47	30
ARIZ	65	77	72
ARK	67	47	41
CALIF	40	65	40
GA	42	61	57
LA	70	79	47
MISS	90	90	72
MO	66	37	47
N MEX	35	35	30
N C	60	57	82
OKLA	1	10	15
S C	58	63	68
TENN	40	15	21
TEX	22	30	30
14 STATES	38	44	38

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.

RICE
% HARVESTED

	1982	1981	AVG.
ARK	16	24	15
CALIF	0	0	0
LA	79	85	81
MISS	15	22	25
TEX	100	100	99
5 STATES	40	45	40

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.

SOYBEANS
% SETTING PODS

	1982	1981	AVG.
ALA	99	NA	NA
ARK	92	95	86
GA	97	94	NA
ILL	100	100	100
IND	100	100	100
IOWA	100	100	100
KANS	85	95	NA
KY	94	88	92
LA	98	NA	NA
MICH	100	100	100
MINN	99	99	99
MISS	97	97	94
MO	92	89	96
NEBR	99	100	100
N C	89	88	78
OHIO	100	100	100
S C	91	92	93
TENN	100	100	86
18 STATES	97	NA	NA
EXCL. STATES WITH NA	97	97	96

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.

NA - NOT AVAILABLE

SOYBEANS
% DROPPING LEAVES

	1982	1981	AVG.
ALA	8	9	NA
ARK	7	5	20
GA	17	8	NA
ILL	35	12	28
IND	40	5	25
IOWA	7	24	30
KANS	5	15	NA
KY	26	10	13
LA	14	13	NA
MICH	25	16	17
MINN	15	26	42
MISS	7	30	23
MO	10	9	11
NEBR	2	10	15
N C	0	0	0
OHIO	30	10	20
S C	12	6	12
TENN	10	6	9
18 STATES	17	13	NA
EXCL. STATES WITH NA	18	14	23

THESE 18 STATFS PRODUCED 95% OF THE 1981 SOYBEAN CROP.

NA - NOT AVAILABLE

WINTER WHEAT
% PLANTED

	1982	1981	AVG.
CALIF	0	0	0
COLO	17	17	35
IDAHO	11	9	6
ILL	0	0	0
IND	2	2	2
KANS	5	5	10
MO	0	0	2
MONT	15	10	30
NEBR	20	30	30
OHIO	0	0	0
OKLA	5	15	10
OREG	4	2	3
S DAK	36	35	45
TEX	8	12	16
WASH	30	36	21
15 STATES	9	12	14

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.

SPRING WHEAT
% HARVESTED

	1982	1981	AVG.
IDAHO	85	95	79
MINN	93	99	91
MONT	75	90	80
N D	89	97	84
S DAK	100	100	100
5 STATES	89	97	87

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP.

SORGHUM
% MATURE

	1982	1981	AVG.
COLO	4	9	8
KANS	4	10	20
MO	51	40	43
NEBR	0	5	20
OKLA	25	45	40
S DAK	13	18	16
TEX	70	70	71
7 STATES	31	34	39

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

SORGHUM
% COLORING

	1982	1981	AVG.
COLO	40	45	52
KANS	30	50	60
MO	53	48	53
NEBR	35	75	85
OKLA	NA	NA	NA
S DAK	60	72	70
TEX	78	85	84
7 STATES	NA	NA	NA
EXCL. STATES WITH NA	51	67	72

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

NA - NOT AVAILABLE

September Crop Production Highlights

CORN FOR GRAIN production is forecast at a record high 8.32 billion bushels (211 million metric tons), virtually unchanged from the August 1 forecast and 1 percent above the previous record high set last year. The 90 percent confidence interval for this production is 7.59 to 9.05 billion bushels.

SORGHUM GRAIN production is forecast at 819 million bushels (20.8 million metric tons), down 7 percent from 1981, but 41 percent more than the 1980 drought-stricken crop.

FEED GRAIN production (corn, sorghum, oats and barley combined) is expected to total 252 million metric tons, up 1 percent from 1981.

SOYBEAN production is estimated at a record high 2.31 billion bushels (63.0 million metric tons), up 1 percent from August 1 and 14 percent above last year's crop. The 90 percent confidence interval for the 1982 production forecast is 2.15 to 2.47 billion bushels.

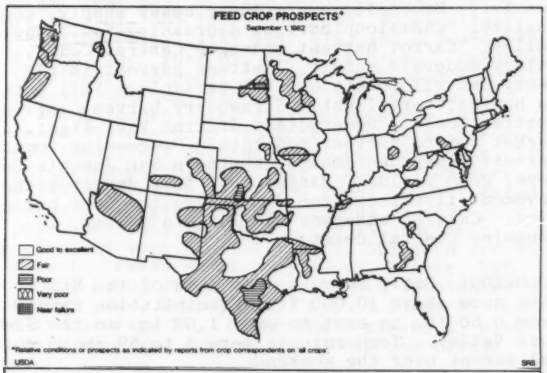
ALL WHEAT production is forecast at a record high 2.82 billion bushels (76.6 million metric tons), 1 percent above the previous record high set in 1981. Compared with a year earlier, durum wheat production is down 21 percent, other spring wheat is up 10 percent and winter wheat production is up fractionally from last year. The 90 percent confidence interval for the all wheat production forecast is 2.75 to 2.88 billion bushels.

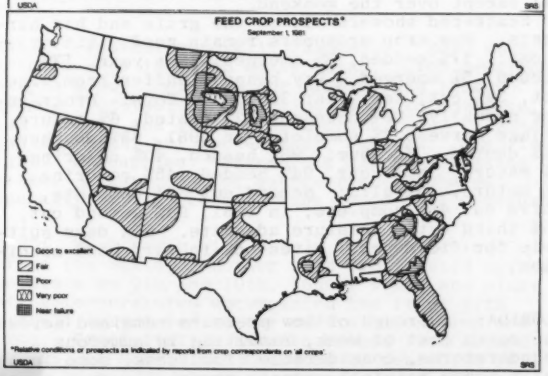
FOOD GRAIN production (wheat, rye and rice combined) is expected to total 84.3 million metric tons, 1 percent below 1981.

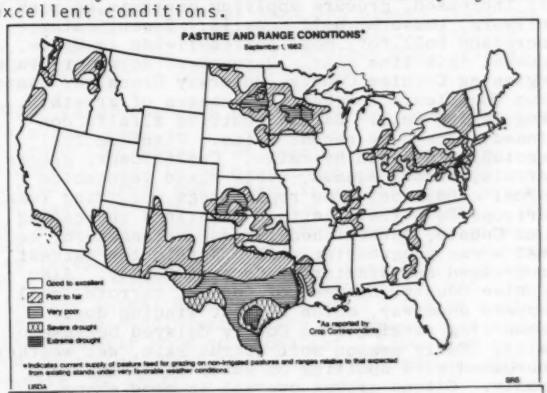
ALL COTTON production is forecast at 11.0 million bales, 1 percent below the August 1 forecast, 30 percent less than production in 1981 and 1 percent below the 1980 production level. The 90 percent confidence interval for this 1982 production forecast is 9.66 to 12.4 million bales.

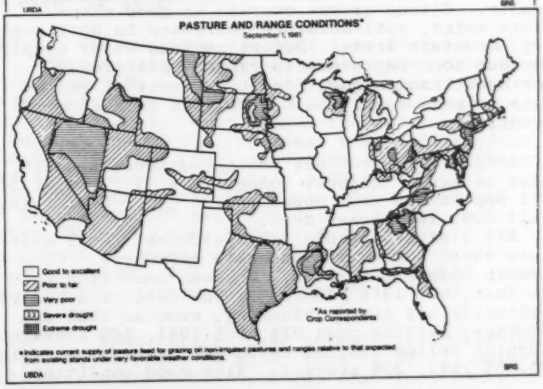
ALL TOBACCO production is forecast at 1.92 billion pounds (873 thousand metric tons), 7 percent below the 2.06 billion pounds (935 thousand metric tons) produced in 1981, but 8 percent above 1980's crop.

PASTURE AND RANGE FEED: The September 1 pasture and range feed condition averaged 82 percent of normal for the 48 contiguous States. This is the same as a year ago, but 8 points more than the 1971-80 average for this date. During August, conditions deteriorated in 31 States, were unchanged in 1 and improved in 16 States. In Texas, range and pastures continued to decline in August as hot, dry weather persisted. Only the High Plains reported fair to good grazing. Grazing virtually ceased in Central and South Texas as drought-like weather caused increased supplemental feeding. During August, conditions declined 5 points in Kansas and 10 points in Oklahoma. Soil moisture was depleted in Oklahoma by high temperatures. Dry weather in parts of North Dakota, South Dakota, Minnesota and Wisconsin caused conditions to decline up to 15 points from a month earlier. Pastures in the eastern third of the Nation ranged from poor to excellent. Portions of New York, Ohio and Pennsylvania showed the largest areas of poor to fair pastures. In the West, conditions improved in Arizona and New Mexico, but were still mostly in the poor to fair range. Washington and Oregon reported dry conditions in some areas which held ratings in these areas to the poor to fair range. The Rocky Mountain area had mostly good to excellent conditions.






PASTURE AND RANGE CONDITIONS*
September 1, 1982
Good to excellent
Poor to fair
Very poor
Severe drought
Extreme drought
*As reported by Crop Correspondents
*Indicates current supply of pasture feed for grazing on non-irrigated pastures and ranges relative to that expected from existing stands under very favorable weather conditions.
USDA
SRS


PASTURE AND RANGE CONDITIONS*
September 1, 1981
Good to excellent
Poor to fair
Very poor
Severe drought
Extreme drought
*As reported by Crop Correspondents
*Indicates current supply of pasture feed for grazing on non-irrigated pastures and ranges relative to that expected from existing stands under very favorable weather conditions.
USDA
SRS

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged near normal. Rainfall varied zero to 2.50 in.

Soil moisture short to adequate. Fieldwork: 5.6 days. Corn harvested 66%, 71% 1981, 45% average. Soybeans turning yellow 26%, 28% 1981, 34% average; dropping leaves 8%, 9% 1981. Cotton bolls open 50%, 47% 1981, 30% average; harvested less than 1%, 1% 1981. Sorghum harvested 32%. Peanuts dug 28%, 13% 1981, 14% average; combined 16%, 7% 1981, 9% average. Conditions: Cotton, peanuts, sorghum, and livestock good; corn, soybeans, and pastures fair to good.

ALASKA: Cloudy skies, rain and cooler temperatures limited field activity to only 2 days in most areas in Railbelt. Farmers anxiously awaiting drier weather for harvesting hay, barley and potatoes. Barley combining made excellent progress early in the week, 15% of 1982 crop harvested, last year 25% harvested. Rain increased moisture content of grain. Second crop harvest of hay virtually at a standstill. Potato digging was in full swing. Ground moisture supplies range from short to surplus.

ARIZONA: Dramatic change in weather end of week. Heavy rain showers, thundershowers spread over State 11th. Skies mostly clear 12th. Temperatures dropped 10 to 15°. Moisture amounts mostly between 0.50, 1.50 in. except locally over 2.50 in. White Mountains, southeast. Average temperatures 2° below normal to 2° above.

Open cotton bolls present 65% of acreage, behind last year's 77%, average 72%. Insect activity increased, growers applying controls on pink bollworm, budworm, boll weevils. Recent rains increased boll rot, most cotton fields in State, unusual this time year. Harvest of corn for grain beginning Cochise County, underway Greenlee, Santa Cruz Counties. Sorghum, all stages of growth, progressing well. Baling, cutting alfalfa continued, slowed by recent rains. Planting fall vegetables delayed by rains. Cauliflower, greens, carrots, summer squash, other mixed vegetables normal condition, some replantings occurring Yuma, Maricopa Counties. Lettuce plantings increasing Yuma County, established fields southeastern, central areas progressing well. Watermelon harvest progressed satisfactorily Cochise County. Also Cochise County, harvest of apples, carrots, chili peppers underway, onion harvest winding down. Lemon ring picking Yuma County delayed because of rains. Early season soft citrus skin, wet weather increased rind spotting on early pickings, Yuma County. Citrus groves overall in good shape. Stock water, soil moisture increased in northeastern, mountain areas. Desert regions water supplies low but some improvements ranges, pastures. Northeast ranges good condition, rest of ranges fair to poor condition. Livestock fair to good condition.

ARKANSAS: Dry week but scattered showers south, east weekend. Highest temperature 97°, lowest 50°. All departures from normal +4 to -4°. Most rainfall 2.91 in., least zero.

All 7 days suitable for fieldwork. Soil moisture short northeast, adequate elsewhere. Crop growth moderate to slow. Soybean condition good to fair, but late planted fields need rain badly; virtually all fields blooming, same as 1981 and average; setting pods 92%, 95% 1981, 86% average; turning yellow 17%, 9% 1981, 26% average; shedding 7%, 5% 1981, 20% average. Rice good condition; ripe 54%, 55% 1981, 54% average; harvested 16%, 24% 1981, 15% average. Cotton good condition; open bolls 67%, 47% 1981, 41% average; harvest very limited. Slight decrease in bollworm activity. Corn harvested 73%, 71% 1981, 48% average. Sorghum harvested 52%, 54% 1981, 45% average. Pastures average. Cattle good condition.

CALIFORNIA: Rain over the South Coast and the southern interior Deserts, otherwise dry over the State. Mean temperatures almost uniformly 2 to 4° above the seasonal normal. Low cloud and fog kept southern portion of Monterey Bay area a little cooler than normal. Clouds and showers kept low Desert temperatures right at the seasonal norm.

All field crops showing good progress. Cotton maturing satisfactorily with 40% of cotton open, 65% last year, 40% average. Rice developing normally as last fields head out. Most fields in milk and dough stages. Fields being drained. Dry bean harvest increasing. Field corn and grain sorghum maturing well. Sugarbeet harvest continues with some fields being treated. Safflower, corn for silage and alfalfa harvests continue. Gravenstein apple harvest complete Sebastopol. Golden Delicious, Red Delicious, Jonathan varieties harvested Sebastopol, Watsonville. Hass avocado picking slow. Raisin grape laying, turning, rolling active. Wine, table grape harvest active. Nectarines, peaches, plums moving. Cling peach harvest complete this week; quality better. Prune harvest 95% complete; good size, quality. Desert lemon harvest active; size small, quality good. Grapefruit harvest continues; Rubys good, White fair to poor. Almonds harvested; good yields. Walnuts preparing harvest. Artichoke harvest heavier. Broccoli, cauliflower heavy supply, good quality. Cantaloup harvest decreasing San Joaquin Valley. Carrot harvest moderate Central Coast. Celery moderate supply. Lettuce harvest fairly heavy Central Coast, quality variable. Fall potato harvest very light. Strawberry harvest active Central Coast. Sweetpotato digging very light. Market tomato harvest moderate. Processing tomato harvest heavy Sacramento, northern San Joaquin Valleys, good yields. Ranges dry, fire danger high. Movement livestock from summer grazing area beginning. Calving underway San Joaquin Valley, increasing Central Coast.

COLORADO: Daily showers over much of the State with snow above 10,000 ft. Precipitation ranged from 0.50 in. in east to over 1.00 in. in the San Luis Valley. Temperatures were 3 to 5° above normal except over the weekend.

Scattered showers slowed the grain and hay harvests. Row crop prospects remain good. Winter wheat: 17% seeded, 3% emerged; last year, 17% seeded, 5% emerged. Dry beans: Suffer from vine rot, 34% cut; last year 32% cut. Corn: Progressing normally; 88% doughed, 52% dented, 6% mature. Silage harvest 7% complete; in 1981, 88% doughed, 51% dented. Sorghum: 96% headed, 40% coloring; 4% mature; last year, 94% headed, 45% coloring, 9% mature. Alfalfa: Second cut 88% complete, third cut 48% complete; in 1981, 94% second cut, 45% third cut. Moisture adequate. Six days suitable for fieldwork. Livestock in very good condition.

FLORIDA: A trough of low pressure remained across the north most of week, resulting in numerous thunderstorms, considerable cloudiness, some locally heavy rainfall amounts especially over north-

ern two-thirds of State. Drier air with increased sunshine, fewer thunderstorms returned during the weekend. Temperatures averaged 2 to 4° below normal, Panhandle, but continued near normal elsewhere.

Soil moisture ranges from adequate to excessive depending on local rainfall. Corn harvest practically complete, peanut harvest gaining where weather permits. Haymaking limited due to rains. Soybeans good condition, however, worms, insects increasing. Cotton good condition. Sugarcane good to excellent condition. Pasture condition varied from good to excellent, however, some poor to fair localities in the Panhandle. Cattle condition, good to excellent. Citrus grove condition continues excellent. Adequate rain all areas, most irrigation discontinued. Abundance of new growth all areas. New crop fruit excellent progress, good fruit sizes. Early citrus harvest very active. Hot, humid weather with numerous showers and thunderstorms prevailed in most vegetable areas. Rainfall was mostly ample to locally heavy. Rains, wet ground slowed or delayed fieldwork except in the Pompano area. Plantings of eggplant, celery, cucumbers, peppers, squash, tomatoes continue very active. Snap bean, cabbage plantings increasing. Sweet corn seeding continues active in the Everglades.

GEORGIA: Rainfall from near 2.00 in. extreme south to less than 0.10 in. northern third. Temperatures slightly below normal south and 5 to 6° below normal elsewhere. Rather wet early in weekend of the 10th and 11th, with additional rainfall averaging near 1.50 in. extreme south and near 0.25 in. extreme north.

Soil moisture 11% very short, 48% short, 35% adequate, 6% surplus. Five days suitable for fieldwork. Row crop harvest and haying active. Some land preparation for fall seeding. Insect controls active. Corn 28% fair, 62% good, 8% excellent; 99% mature, equal last year; 77% harvested, last year 82%, average 66%. Cotton 2% very poor, 5% poor, 30% fair, 60% good, 3% excellent; 42% setting bolls, last year 61%, and average 57%; 3% picked, last year 8%, and 6% average. Peanuts 2% very poor, 3% poor, 21% fair, 72% good and 2% excellent; 35% dug, last year 17%, and average 18%; 20% threshed, last year 9%, average 10%. Soybeans 3% very poor, 8% poor, 40% fair, 46% good, 3% excellent; 97% setting pods, 94% last year; 17% dropping leaves, 8% last year. Apples 13% very poor, 25% poor, 37% fair, 25% good; 84% harvested, last year 76%, average 69%. Pecans 3% very poor, 7% poor, 36% fair, 50% good, and 4% excellent. Hay crops 2% very poor, 31% fair, 59% good and 4% excellent. Pastures 2% very poor, 4% poor, 32% fair, 55% good, 4% excellent. Wheat 1% planted, same last year, average 2%. Rye 1% planted, last year and average 2%. Other small grains 2% planted, last year and average 4%. Hogs and cattle good.

HAWAII: Weather generally favorable. More sunny periods. Few isolated heavy rains. Crop progress fair to good. Spraying for disease and insect damage. Vegetables: Supplies light to moderate. Head cabbage and lettuce production down. Bananas: Supplies light but increasing. Papayas: Supplies light. Pineapples: Harvesting slack. Planting active. Sugar: Steady harvesting. Pastures: Generally fair to good. Rains added more moisture.

IDAHO: Week began with a cold front sweeping across the State. Another cold front raced across the State on 9th and 10th. Gusty winds and plummeting temperatures accompanied the front with rainfall restricted to the central mountains and north. Precipitation amounts ranged from around 0.10 in. at Moscow and Lewiston to near 0.50 in. in the Panhandle section. Average temperatures were generally from 2 to 4° above normal in the south to 1 to 2° below normal in the Panhandle.

Good harvest first part of week, rain and cold over the weekend for north and east. Grain harvests wrapped up in all but those two areas, especially barley in east where some fields were still green. Winter wheat 97% harvested, 100% last year, 92% average. Spring wheat 85% harvested, 95% in 1981, 79% average. Barley moved to only 77% harvested, versus 95% last year and 87% average. Potato digging 3% complete, as growers in east were holding for better size. Potatoes 3% dug this time last year and average. Onions 30% harvested. Sweet corn 92% harvested. Fruit and seed crop harvests underway in southwest.

ILLINOIS: Temperatures normal to 3° above normal. Maximum readings climbed into the 80's during the second half of the week. Precipitation light (0.10 to 0.69 in.). The southwestern sections were the driest with little or no rainfall.

Corn 47% excellent, 50% good, 3% fair. Corn 100% dough, 100% 1981, 100% average; 95% dent, 80% 1981, 90% average; 60% mature, 27% 1981, 60% average; 2% harvested, 0% 1981, 2% average. Soybeans 26% excellent, 67% good, 7% fair. Soybeans 100% setting pods, 100% 1981, 100% average; 68% turning yellow, 37% 1981, 57% average; 35% dropping leaves, 12% 1981, 28% average; 2% harvested, 0% 1981, 1% average. Alfalfa 25% excellent, 72% good, 3% fair; 84% third crop cut, 80% 1981, 84% average. Pastures 15% excellent, 66% good, 19% fair. Soil moisture 10% short, 85% adequate and 5% surplus. Days suitable for fieldwork: 5.5.

INDIANA: Fieldwork averaged 6 days. Topsoil and subsoil moisture short to mostly adequate. Corn 50% mature, 1981 10%, average 35%; 100% dented, 1981 60%, average 90%. Soybeans 100% setting pods, 1981 100%, average 100%; 40% dropping leaves, 1981 5%, average 25%. Wheat land 33% plowed, 1981 35%, average 40%. Wheat 2% seeded, 1981 2%, average 2%. Tobacco 45%, 1981 35%, average 50%. Silos 45% filled, 1981 15%, average 35%.

IOWA: Warm week with showers at the beginning and again late week.

Topsoil moisture: 9% surplus, 89% adequate, 2% short. Corn in or past dough stage: 91%, last year 97%, normal 99%. Corn in or past dent stage: 67%, last year 81%, normal 86%. Corn mature: 15%, last year 23%, normal 42%. Soybeans with leaves turning: 28%, last year 65%, normal 74%. Soybeans with leaves shedding: 7%, last year 24%, normal 30%. Third crop alfalfa hay harvested: 85%, last year 90%, normal 82%. Fieldwork: 5.1 days suitable. Crop conditions: Corn, soybeans, hay and pasture mostly good to excellent. Livestock in good condition. Subsoil moisture 7% surplus, 91% adequate, 2% short.

KANSAS: Temperatures averaged 4 to 7° above normal. Precipitation heaviest across the northern third with 0.50 to 0.88 in. Southeast and east central sections less than 0.20 in. Several totals over 1.00 in. over the northeast.

Sorghum headed 90%, 96% last year, 95% average; coloring 30%, 50%, 60%; mature 4%, 10%, 20%; harvesting has begun. Soybeans podding 85%, 95% last year; dropping leaves 5%. Corn dough stage 96%, 97% last year, 98% average; dent 70%, 75%, 80%; mature 30%, 40%, 45%; harvested 3%, 4% last year, 10% average. Alfalfa 3rd cutting 95%, 98%, 96%; 4th cutting 40%, 50%, 35%. Wheat planted 5%, last year 5%, 10% average. Fieldwork days: 5.5.

KENTUCKY: Temperatures near normal, precipitation light. Daily highs in 80's, lows in 60's. Rainfall amounts less than 0.50 in. most locations.

Days suitable: 5.5. Soil moisture 3% short, 89% adequate, 8% surplus. Burley tobacco harvest two-thirds complete, slightly ahead of last year. Barn space becoming a problem. Approximately 15% of reporters indicate evidence of houseburn. Severity mostly light. Dark-type harvest two-thirds complete. Corn 95% dented or beyond, 85% year ago, average 90%; 48% mature, 43% last year, average 44%. Grain harvest 4% complete. Few early planted soybean fields harvested western areas; 26% acreage dropping leaves, 10% year ago, average 13%.

LOUISIANA: Rainfall heavy northeast, southwest, south central; lighter elsewhere. Temperatures near normal.

Soil moisture short prior to rains on 11th. Days suitable: 6.3. Corn harvested 87% 1982 and 1981, 75% average. Rice ripe 87%, 95% 1981, 91% average; harvested 79%, 85% 1981, 81% average. Cotton open bolls 70%, 79% 1981, 47% average; harvested 2%, 5% 1981, 3% average; condition good. Sorghum turning color 99%, 96% 1981, 90% average; ripe 93%, 84% 1981, 68% average; harvested 82%, 66% 1981, 42% average. Sweetpotatoes harvested 40%, 48% 1981, 41% average; condition good. Sugarcane planted 42% 1982 and 1981, 19% average; condition good. Pecans and vegetables rated fair. Last cutting hay 56%, 34% 1981. Pastures fair to good. Cattle good.

MARYLAND AND DELAWARE: Continued cool and very dry. Temperatures averaged 4° below normal with only slight amounts of rain reported in western Maryland and Washington National and Wilmington Delaware Airports. Highs were mostly in the mid 80's, lows in the 40's to low 50's.

Delaware: Soil moisture in top and subsoil short. Fieldwork: 7 days. Corn in good condition; 80% dented, this year and last, 45% mature, 1981 20%. Corn harvested for grain 10% complete, 1981 20%. Silage harvest 50% complete; 1981 65% harvested. Soybean condition fair, 90% podded this year and last, 30% turning, 10% 1981. Peach harvest complete. Apple harvest 75% complete, 25% 1981.

Maryland: Topsoil and subsoil moisture mostly in short supply. Fieldwork: 7 days with only trace of rain reported in western Maryland. Corn in good condition, 95% dough and 80% dented this year and last, 40% mature, ahead of last year's 25%. Corn harvested for grain stood at 5%, equal to last year. Silage harvest was 40% complete, 1981 50%. Soybeans were 85% podded, equal to 1981; 15% soybeans turned, 1981 10% turned. Tobacco condition good to excellent, 95% topped. Tobacco harvest 70% complete, 1981, 85%. Harvest progress of peaches 95%, 1981 100%. Apples 25% harvested 1981 and 1982. Watermelon 85% harvested, cantaloups 95% harvested.

MICHIGAN: Warm and dry. Average temperatures 3 to 7° above normal.

Crop maturity aided by warm temperatures. However, soils becoming very dry over southern Lower Peninsula and good rain needed. Dry bean and corn silage harvests increased. Six days suitable fieldwork. Growers preparing soils for wheat planting. Crop damage from the late August frost becoming more obvious in north; crops hardest hit were corn, potatoes and beans. About 10% dry beans harvested, compared 13% 1981; 25% average. Corn silage harvested 5%; 9% 1981; 16% normal. Corn mature 30%; 19% 1981; 18% normal. Soybean leaves shedding 25%; 16% 1981; 17% average. Apples coloring well and grape harvest underway. Sweet corn and cantaloup harvest about over. Tomato and onion harvests active.

MINNESOTA: Temperatures averaged from the low 60's northeast to near 70° south. Temperatures were from 4 to 9° above normal. The highest reported temperature was 90° at Hallock and coolest reported temperature was 34° at Itasca. Rainfall averaged less than 0.50 in. northwest and generally between 1.00 to 2.00 in. elsewhere. Largest rainfall total was 3.30 in. at St. Cloud.

Topsoil moisture still short in some northern and western counties. Rain in other areas slowed maturing of row crops and held up last cutting of hay. Pastures greening up. Corn and soybeans need warm sunny weather with no frost until end of September. Topsoil moisture rated 8% very short, 12% short, 70% adequate, 10% surplus. Combined: Spring wheat 93%, 1981 99%, normal 91%; oats 98%, 1981 99%, normal 97%; barley 98%, 1981 99%, normal 97%. In dough: Field corn 96%, 1981 98%, normal 97%. Denting: Field corn 73%, 1981 73%, normal 78%. Mature: Field corn 7%, 1981 11%, normal 25%. Turning yellow: Soybeans 68%, 1981 75%, normal 78%. Shedding leaves: Soybeans 15%, 1981 26%, normal 42%.

MISSISSIPPI: Temperatures 1 to 6° below normal. Extremes: 53 and 93°. Rainfall from remnants of tropical storm Chris covered the State. Heaviest in Delta area and northern part of State, 2.00 to 4.00 in. common in northwest. Rainfall light in southeast. Several tornadoes sighted on the 12th, with some property damage and trees downed.

Soil moisture adequate north, short south. Fieldwork: 5.9 days suitable. Soybeans 97% podding, 97% last year, 94% average; 7% shedding, 30% last year, 23% average; condition good to fair. Cotton 90% acres with open bolls, 90% last year, 72% average; 1% harvested, 5% last year, 1% average; condition good to fair. Rice 98% headed; 55% mature, 15% harvested, 22% last year, 25% average; condition good. Corn 35% harvested, sorghum 34%, hay 90%, sorghum silage 80%, corn silage 92%, peanuts 28% and sweetpotatoes 25% harvested. Pecan condition fair. Pasture condition fair to good.

MISSOURI: Temperatures averaged near normal. Northern half of the State had slightly below normal temperatures and the southern half was above normal temperatures. The northern half of the State averaged less than 0.25 in. of rain, and the southern half had no rain.

Fieldwork: 3.6 days suitable. Corn 86% in dented stage or beyond, 89% last year, normal 87%. Corn 38% mature, 46% last year, 47% normal. Corn 9% harvested, 10% last year, 13% normal. Soybeans 92% setting pods, 89% last year, 96% normal. Beans 19% turning color, 22% last year, 27% normal. Beans 2% mature, last year 3%, normal 9%. Grain sorghum 51% mature, 40% last year, 43% normal. Sorghum 21% harvested, 12% last year, normal 11%. Third cutting alfalfa hay 82% harvested, last year 90%, normal 88%. Cotton 66% with open bolls, last year 37%, normal 47%. Cotton condition 33% good, and 67% fair. Corn condition 8% excellent, 72% good, and 20% fair. Soybean condition 2% excellent, 55% good, 42% fair, 1% poor. Grain sorghum condition 4% excellent, 57% good, 39% fair. Pasture condition mostly good. Topsoil moisture supply mostly adequate.

MONTANA: Very warm and dry until about 9th when Pacific storm moved across State. Storm caused temperatures to drop and spotty generally light precipitation.

Topsoil moisture supply becoming mostly short. Subsoil moisture supply short to adequate. Days suitable for fieldwork: 7. Harvest progress compared with last year and normal: Winter wheat 95, 100, 100; spring wheat 75, 90, 80; barley 75, 90, 80; oats 80, 90, 80. Second cutting alfalfa hay 75, 90, 70. Corn silage and dry bean harvest started. Percent winter wheat acreage seeded compared with last year and normal: 15, 10, 30.

Livestock moved from summer ranges, 10, 10, 20. Range feed and stock water supplies adequate.

NEBRASKA: Precipitation: As of 11th, less than 0.10 in. over west while 0.20 to 0.40 in. reported over the east. Heavy rains occurred in a number of eastern and northern areas over the weekend. Temperatures: About 4° above normal.

Corn good; dough 90%, 95% last year and 99% normal; denting 50%, 70% last year and 80% normal; mature 3%, 15% a year ago and 30% normal. Soybeans good; turning color 20%, 50% last year and 55% normal; dropping leaves 2%, 10% last year and 15% normal. Sorghum mostly good to fair; turning color 35%, 75% a year ago and 85% normal. Winter wheat seeded 20%, 30% last year and normal. Third cutting of alfalfa 80%, 85% a year ago and 98% normal. Pasture and range feed supplies adequate. Topsoil moisture mostly adequate to short. Subsoil supplies adequate. Days suitable for fieldwork: 6.0.

NEVADA: Warm weather continued through midweek. A few afternoon and evening thunderstorms east and south. Unseasonably low temperatures remainder of week. Light dusting of snow noted higher peaks northeast end of period. Temperatures averaged a few degrees above normal most areas. Extremes: 23 and 109°.

Alfalfa hay harvest active most areas. Ranges and pastures continue furnishing excellent grazing. Most cattle still at high elevation. Sales slow to date.

NEW ENGLAND: Temperatures seasonably warm. Dry week. Southern New England zero precipitation. North with scattered showers 0.25 in.

Six days suitable for fieldwork. Soil moisture adequate. Maine potatoes: Topkilling most varieties, harvest about 5% complete; 1981, 19%. Quality ranges from very poor to very good. Second crop hay harvest: 93%; 1981, 82%, quality about average. Silage corn harvest: 7%; 1981, 19%. Cranberries in Mass. nearly fully colored, no frost, record harvest expected. Summer vegetable harvest past peak. Fall vegetables in good condition.

NEW JERSEY: Temperatures 1° below normal. Extremes 43° at Charlotteburg on 9th and 90° at Flemington and Toms River on 12th. Rainfall averaged: 0.02 in. north, none central and south. Heaviest 24-hour total was 0.10 in. at Canoebrook on 7th to 8th. Soil moisture, in percent of field capacity, averaged 83% north, 63% central and 53% south. Four inch soil temperatures averaged 66° north, 70° central and 72° south.

Fieldwork: 7.0 days suitable. Irrigation in use on fall crops. Warmer temperatures advancing crop maturity. Iceberg lettuce harvest to begin next week. Other fall vegetable harvest increasing. Irish potato harvest well advanced. Sweetpotato harvest becoming general. Harvest of fall apples increasing. Peach harvest nearing completion, some growers finished. Corn silage making active. Some hay cutting continues. Rain needed for pastures and recent seedings of alfalfa, cover crops and grains. Planting continues.

NEW MEXICO: Average temperatures were slightly above normal in the eastern plains and near or slightly below normal elsewhere.

Scattered showers interrupted farming activities. The only areas that were in a very short supply of soil moisture were the south and northeastern areas. Opening of cotton bolls was increasing. Alfalfa fields remain in good condition in most areas. Corn in good condition most areas. Corn ensilage harvest about 60% complete. Grain sorghum fields in fair to good condition. Winter wheat seeding remained active. Green chile harvest remains active with harvest of red chile expected to get underway soon. Peanuts continued to make excellent growth. Pecans were making good progress. Fall lettuce in good condition. Continued rains sustained the recent improvement of much the States range. Cattle and sheep in good shape with calves gaining well on summer ranges. Cotton opening bolls 35%, 35% 1981, 30% average.

NEW YORK: Very little rainfall. Periods of cool then warm temperatures.

Corn behind normal in maturity, growth slow. Corn silage harvest underway. Oat harvest nearly complete. Third cutting alfalfa 43% done, 40% 1981, 43% average. Dry bean harvest started. Cold press Concord grape, Bartlett pear harvests done. Aurora grapes 50% done. McIntosh apple harvest underway. Potato, vegetable harvests progressing.

NORTH CAROLINA: Temperatures: 3 to 5° below normal. Precipitation: Very rare, zero to 0.70 in.

Fieldwork: 6.3 days suitable. Soil moisture: 18% very short, 59% short and 23% adequate. Conditions: Pasture, cotton, peanuts, soybeans, hay, sweetpotatoes and sorghum mostly fair to good. Corn good to excellent. Apples mostly poor to fair. Harvest: Sweetpotatoes 17%, 1981 16%, average 15%; sorghum 25%, 1981 18%; flue-cured tobacco 96%, 1981 91%, 85% average; burley tobacco 36%, 1981 57%, 49% average; corn for grain 34%, 1981 39%, 34% average; corn for silage 80%, 1981 79%; apples 63%, 1981 34%, 32% average; hay 85%, 82% 1981 and average. Phenological stages: Cotton opening bolls 60%, 1981 82%, 57% average; corn soft dough 99%, 1981 and average 100%; corn dent 95%, 1981 99%, 97% average; corn mature 90%, 1981 88%, 87% average; soybeans set pods 89%, 1981 88%, 78% average. Major farm activities: Corn harvest for grain and silage, flue-cured tobacco harvest, marketing tobacco, cutting hay and land preparation for small grain seeding.

NORTH DAKOTA: Unseasonably warm weather prevailed. Temperatures averaged 7 to 10° above normal. Several record highs established. Warmest temperature 102° south central on 10th. A cold front moved much cooler air into State over weekend. Lowest temperature was 35° west central. Precipitation quite light. Generally less than 0.10 in. Two exceptions were 0.73 in. south central and 0.18 in. northwest.

Farmers nearly completed small grain harvest, which was ahead of normal, as excellent harvest weather prevailed until weekend. The percent combined with last year and average was: Hard red spring wheat 89, 97, 84; durum 83, 96, 73; barley 96, 100, 93; oats 95, 98, 91. Remaining acreage mostly west and north. Hot weather helped push row crop development but most still behind normal with considerable acreage needing more frost-free weather. Row crops mostly fair to good condition. More rain would be welcomed, particularly for sunflower and corn. Flax and potato harvests near normal pace, dry beans behind. Only about one-fourth of State has adequate topsoil moisture. Rain needed for fall tillage, pasture growth and winter wheat and rye germination.

OHIO: Weather conditions were quite variable. Temperature extremes were wide, 80's to lower 90's during afternoon. Morning lows in 50's. Growing degree day accumulations averaged 5 to 15 above normal. Precipitation light, southern sections dry, north averaged 0.10 in.

Possible frost damage to late planted corn and soybeans remain a concern to farmers. Past week's activities included beginning of corn and soybean harvest, apple picking, housing tobacco, cutting corn silage, fall plowing, hauling manure and

general farm maintenance. Corn in dough 100%, 90% 1981, 100% average. Corn dented 99%, 60% 1981, 75% average. Corn mature 60%, 20% 1981, 30% average. Corn harvested less than 5%, 0% 1981, 0% average. Soybeans setting pods 99%, 85% 1981, 100% average. Soybeans leaves turning yellow 75%, 35% 1981, 45% average. Soybeans shedding leaves 30%, 10% 1981, 20% average. Winter wheat planted 0%, 0% 1981, 0% average. Tobacco topped 99%. Tobacco harvested 45%. Alfalfa 3rd cutting 95%. Other hay 3rd cutting 75%. Days favorable: 6.5. Pasture condition fair. Soil moisture 70% short, 30% adequate.

OKLAHOMA: Temperatures averaged 1 to 6° above normal. Rainfall averaged 0.25 in. in the Panhandle and less than 0.10 in. elsewhere.

Cooler temperatures have helped field crops throughout the State, but moisture still badly needed. Crop progress increased moderately despite continued dry weather. Wheat planted: 5%, 15% 1981, 10% average. Sorghum heading: 95%, 100% 1981, 100% average. Cotton open bolls: 1%, 10% 1981, 15% average. Days suitable for fieldwork: 6.8.

OREGON: Temperatures averaged 3 to 6° above normal. Precipitation along coast received up to 1.00 in. or more; 0.50 in. or more in interior valleys; less than 0.50 in. elsewhere. Additional rain moved in by the end of the week.

Rains helping in fall tillage. Winter wheat seeding 4% complete; 2% last year, 3% average. Grass seed harvest almost complete as well as field burning. Mint harvest essentially over. Final hay being cut. Anjou, Bosc and Comice pear harvest underway. Elberta peach harvest underway. Evergreen blackberry and blueberry picking about complete. Filberts starting to drop. Potato harvest continues in early regions with Klamath Falls starting to dig. Most onions pulled; ready to start to move into storage. Sweet corn harvest at peak. Cole and salad vegetables being picked. Livestock condition good. Pastures fair shape; rains will help. Low ranges dry and short; high ranges good.

PENNSYLVANIA: Cool through 8th followed by warming and more humid conditions last half of period. Temperatures near to 3° below normal with extremes 36 and 86°. Rainfall practically nonexistent with heaviest amounts 0.10 in. or less for driest week in more than a year.

Six days suitable. Moisture short to adequate. Activities: Baling straw; plowing; seeding alfalfa; planting wheat and barley; making hay; clipping pastures; and harvesting tobacco, corn silage, apples, early grapes, cantaloups, potatoes, sweet corn and tomatoes. Tobacco 68% harvested, last year 76%. Potatoes 47% harvested, same as last year. Corn 93% in or past the dough stage with 60% dented and less than 5% mature; last year 97% in or past the dough stage with 70% dented and 16% mature; average 95% in or past the dough stage with 65% dented and 13% mature. Fall plowing 54% complete, same as last year. Barley 9% planted, same as last year. Wheat 21% planted, last year 14%. Third crop alfalfa 69% harvested, last year 60%. Fourth crop alfalfa 31% harvested, last year 23%. Second crop Clo-Tim 93% harvested, last year 88%. Quality of hay made fair to good. Feed from pasture average to below average.

PUERTO RICO: Island average rainfall 0.79 or 1.03 in. below normal. Highest weekly total 4.85 in. Temperatures averaged about 82° on Coasts and 79 to 76° Interior Divisions. Extremes: 94 and 62°.

SOUTH CAROLINA: Cooler, drier than usual until midweek. Warmer, cloudy, humid weather followed by rains 11th over most areas. Rains mostly light, scattered locally heavy showers.

Soil moisture short, 5 to 6 days available for outdoor work. Corn yields excellent, 70% harvested, 65 year ago, 64 average. Cotton fair to good condition, some bolls opening too soon due to dry stress; 1% harvest ahead of previous data; 58% open bolls behind 63 year ago, 68 average. Peanuts fair to good condition, first county harvesting ahead of previous years. Soybean conditions only fair; pods not filling due to moisture stress. Weekend rains helped, more desperately needed; 91% setting pods, 92 year ago, 93 average; 12% acreage leaves turning, 6 year ago, 12 average; 8% shedding leaves, 2 year ago. Fall hay, sorghums and livestock fair to good condition. Pastures fair in dry weather.

SOUTH DAKOTA: Temperatures 0 to 8° above normal. Extremes: 105 and 39°. Rainfall widespread. Up to 2.95 in.

Topsoil moisture critically short most of north central and northwest. Adequate in east central and most of southeast, south central and west central. Also small areas of central, northeast and southwest. Short elsewhere. Six days suitable. Main activities fall tillage, moving hay, cutting corn silage and winter grain seeding. Some winter wheat borders being sprayed for grasshoppers. Adequate moisture main winter wheat district. Corn maturity 4 days behind. Soybeans and sorghum 2 days behind. Flax harvested 83%, 1981 87%, average 88%. Soybeans shedding leaves 29%, 1981 44%, average 48%. Corn in dough 84%, 1981 71%, average 93%. Corn dented 49%, 1981 62%, average 78%. Sorghum showing color 60%, 1981 72%, average 70%. Corn mature 26%, 1981 21%, average 38%. Soybeans mature 14%, 1981 16%, average 19%. Sorghum mature 13%, 1981 18%, average 16%. Sunflowers mature 45%, 1981 42%, average 35%. Winter wheat seeded 36%, 1981 35%, average 45%. Winter rye seeded 48%, 1981 40%, average 41%.

TENNESSEE: Fieldwork available 5.3 days. Soil moisture 75% adequate, 19% short, 6% surplus. Corn mature 66%, 1981 73%, average 57%; harvested 8%, 1981 13%, average 10%. Cotton open bolls 40%, 1981 15%, average 21%; harvested 2%, 1981 0%, average 3%. Soybeans shedding leaves 10%, 1981 6%, average 9%; mature 2%, 1981 2%, average 3%. Tobacco harvested: Burley 75%, 1981 78%, average 75%; dark-fired 56%, 1981 80%, average 72%; dark air-cured 78%, 1981 82%, average 74%. Wheat sown 8%, 1981 5%, average 11%. Oats sown 14%, 1981 12%, average 18%.

TEXAS: Generally weak weather pattern early week produced scattered showers over Coastal Plains. Scattered showers western half State during midweek. Tropical storm Chris formed late week off Texas coast, moved on shore 11th near Beaumont. Temperatures above normal over State. Rainfall below normal.

Crops: Crops continue show effects prolonged dry weather. Short moisture supplies stressed many dryland crops, small grain planting and land preparation slowed by dry conditions. Irrigation operations heavy some areas. Ranges and pastures declining, most hay baling operations stopped. Cotton maturing rapidly under hot, summer weather, some areas Plains, bolls opening prematurely because dry conditions. Many stands across State shed bolls response to drought-like conditions. However, weather ideal for harvest, and most defoliation and stripping operations good progress. Insect populations high from Low Plains through Central Texas, yields affected. Some isolated bollworm infestations Trans-Pecos. Statewide condition was 61% of normal with 1% excellent; 26% good; 54% fair; and 19% poor. This compares with 84% of normal last year. Sorghum harvest good progress, combines active across Low

Plains. Yields good most areas State. Clean-up operations underway where field conditions permit. Condition across State was 81% of normal with 13% excellent; 49% good; and 38% fair. This compares with 92% of normal last year. Corn harvest picking up on High Plains. Yields good to excellent despite some corn blight infestations. Silage harvest active, producers stockpiling good supplies for winter feeding. Reported condition was 88% of normal; compared with 93% last year. Statewide condition was 24% excellent; 57% good; 16% fair; and 3% poor. Small grain planting underway where field conditions permit. Short moisture supplies hampered seedbed preparations Blacklands and South Central Texas. Wheat planting active irrigated stands High Plains. Oat fields dry seeded Low Plains and Cross-Timbers. Peanut harvest making progress Cross-Timbers, yields low some areas because dry conditions. Prospects most irrigated stands favorable. Weeds problem Edwards Plateau. Hay meadows continue decline with prolonged dry weather. Some irrigated alfalfa fields being cut, but little regrowth reported pastures not been watered. Cotton setting bolls 100%, 100% 1981, 100% average. Cotton open bolls 22%, 30% 1981, 30% average. Cotton harvested 15%, 10% 1981, 14% average. Rice harvested 100%, 100% 1981, 99% average. Sorghum headed 100%, 100% 1981, 100% average. Sorghum turning color 78%, 85% 1981, 84% average. Sorghum mature 70%, 70% 1981, 71% average. Sorghum harvested for grain 67%, 69% 1981, 67% average. Wheat planted 8%, 12% 1981, 16% average. Wheat emerged 0%, 0% 1981, 2% average. Corn for grain harvested 47%, 44% 1981, 41% average. Peanuts harvested 11%, 9% 1981, 16% average. Soybeans harvested 0%, 0% 1981, 1% average. Sunflowers harvested 7%, 17% 1981, 10% average. Oats planted 3%, 2% 1981, 8% average.

Range and pasture: Ranges and pastures deteriorating rapidly around State, scattered showers too late to rejuvenate summer grasses. Pastures dry, grass fires problem Cross-Timbers. Stock tanks low from Blacklands through South Central Texas. Supplemental feeding increasing most areas, markets active as producers cull herds. Despite decreased grazing, livestock fair to good condition.

Commercial vegetables: Lower Rio Grande Valley, citrus groves under heavy irrigation, fruit sizing well. Planting active fall cucumbers and processing carrots. Coastal Bend, supplies watermelons move to market. Dry conditions slowing land preparation and planting some areas. San Antonio-Winter Garden, irrigation heavy many fall-seeded vegetables. Plantings good progress, producers welcome a good rain. East Texas, fall planting slow progress because hot, dry weather. Sweetpotato harvest progress, yields and quality good. Melons move to market good volume. Trans-Pecos, cantaloup harvest winding down Pecos County. Lettuce planted around El Paso. Plains, harvest bell peppers, cucumbers and carrots continued. Good supply watermelons remains, quality good. Nut shedding and insect problems on increase many pecan trees. Shells hardening Trans-Pecos, many producers preparing for last irrigation before harvest.

UTAH: Recurring periods thunderstorm and shower activity. Accumulated precipitation amounts light to moderate except locally heavy in isolated areas. Average temperatures ranged from 2° below normal to 11° above normal. Moisture use by plants, as indicated by pan evaporation, was below normal.

Farm activity limited by scattered rains. Five days suitable for fieldwork. Major activities included hay harvest and small grain seeding. Winter wheat 31% seeded. Third crop alfalfa 28% cut. Rain damage continues to be a problem. Peach and pear picking continues. Peach crop very light, pears below normal. Peaches 50% picked, pears 17%. Apple harvest just beginning. Good crop expected. Harvest of dry onions and alfalfa seed picking up. Dry weather needed.

VIRGINIA: Dry and cooler than normal. Staunton in the west reported 0.03 in. of rain. Rest of State received none -- or only trace amounts. Temperatures averaged almost 10° lower than normal. Daytime highs: 70's and 80's, nighttime lows: mid 40's to mid 50's. A low of 39° occurred at Wytheville during the period.

Continued clear skies allowed an average 5.9 days suitable for fieldwork. Harvesting of tobacco, hay, corn silage and grain, sweetpotatoes and apples was active and winter small grain seeding got underway. Lack of rain, however, dropped topsoil moisture condition to 89% short, 11% adequate compared with 42% short, 45% adequate, 13% surplus last week. Corn condition excellent: 97% dough, 96% 1981; 88% dent, 93% 1981 and 70% mature, 83% 1981. Corn silage 60% harvested, 52% 1981 and 15% grain corn harvested, 20% 1981, 19% average. Soybean condition good to excellent but late beans stressed east, south and southeast; blooming 98%, setting pods 91%. Scouting and spraying active. Tobacco condition excellent. Flue-cured 84% pulled, 84% 1981, 64% average; firecured 91% cut, 83% 1981, 64% average; burley 62% cut, 65% 1981 and 56% average and sun-cured 72% harvested, 75% 1981, 64% average. Pasture and hay fields stressed -- pasture condition only good. Alfalfa, clover and grass seeding continues. Peanut condition good to excellent, some growers irrigating for ease of digging. Scouting and spraying active. Peanuts slightly stressed. Apple harvest 13% complete, 11% last week, 26% 1981 and 18% average. Wheat seeding just underway, similar to 1981 and average; barley 4% seeded, 3% 1981, 2% average and oats 6% seeded, 6% 1981, 4% average. Preparation of calves for feeder sales and actual livestock sales in progress.

WASHINGTON: The air flow over the State was generally out of the east on 4th and 5th and it brought mostly fair skies and warm temperatures with little or no rainfall. A high pressure ridge began to push moist and cool low level marine air into the western valleys on 6th, but it remained fair and warm east of the Cascades on 9th and 0.10 to 0.20 in. east of the Cascades. Cool, moist unstable air followed the front into the State on 10th and brought some rainshowers to most areas.

West: Early potato harvest has begun. Vegetable seed harvest winding down. Other vegetables being harvested include sweet corn, broccoli, cauliflower, cabbage, lettuce, early carrots, cucumbers, and other leafy vegetables. Blueberry and blackberry harvests continue. Pastures and cattle in good condition. Green chopping and haying continues. Feed supplies adequate.

East: Grain harvests about over. Growers beginning to seed for 1983 grain crops. Potatoes, dry beans, hops, and seed crops were also harvested. Field corn looks good. Third cutting of alfalfa hay continues. Early Golden and Red Delicious apples were picked. Other fruit harvests include late peaches, nectarines, Bartlett pears, and D'Anjou pears. Grapes developing well. Vegetable harvest continues including sweet corn, onions, carrots, lima beans, and others. Pastures and cattle in good condition. Feed supplies adequate. Winter wheat 30% seeded, 36% 1981, 22% average.

WEST VIRGINIA: Temperatures near normal. Low 34°, high 88°. Precipitation very light. Range: Zero to 1.20 in.

Soil moisture short to adequate. Days worked averaged 5.5. Main activities: Hay harvesting, gardening, maintenance, pasture clipping. Corn:

Good to fair condition; 76% dough stage; 85% in 1981. Hay: Fair to good condition, 2nd cutting 86% complete, 78% of normal, 86% complete in 1981. Pasture in fair to good condition. Tobacco in good to fair condition with 85% topped and 71% harvested, 99% and 66% in 1981. Peaches: Poor to fair condition; 95% harvested, 64% of normal. Apples reported in good to fair condition. Gardens reported in good to fair condition.

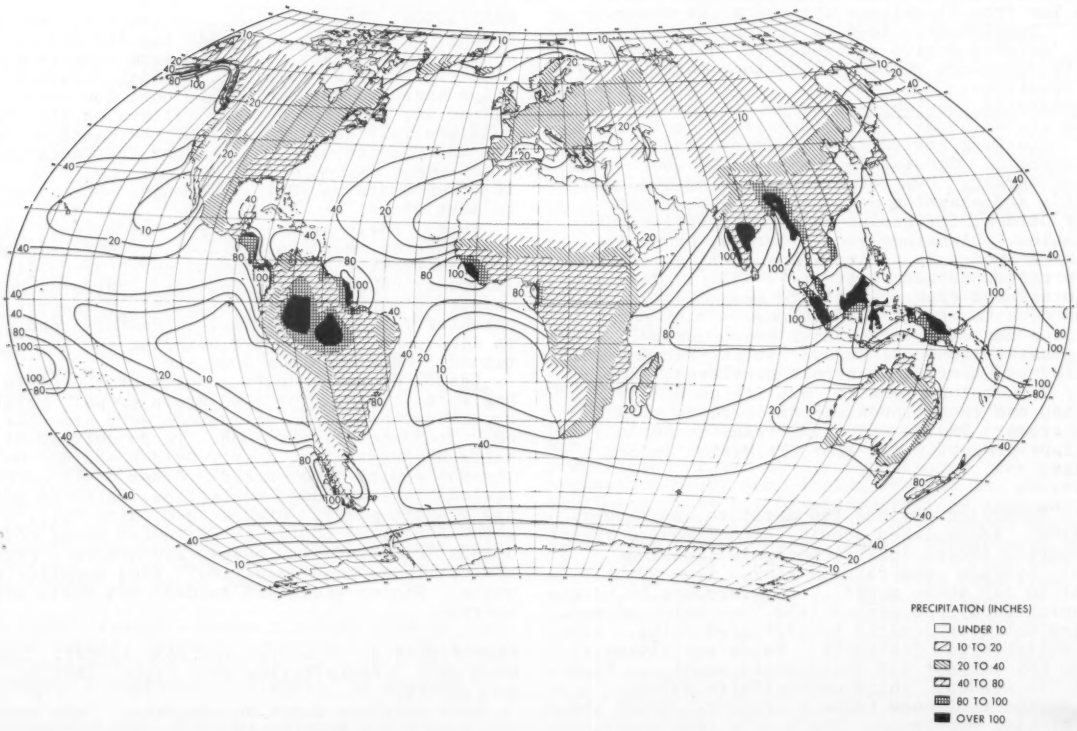
WISCONSIN: Temperatures averaged 1° above normal even though early week temperatures were cool. Temperatures moved from highs in the 60's to highs in the 80's by end week. Temperatures ranged from a balmy 88° in Mt. Mary on the 12th to a rather chilly 31° in Lake Thompson on the 7th. Light rains on 6th gave way to dry days on 7th and 8th. Showers returned to western and northern areas on 9th and 10th. Spooner, located in the north, received a total of 2.95 in. of rain in a 48-hour period. Widespread showers also occurred on 12th, with Rhinelander recording 2.85 in.

Fieldwork: 5 days suitable. Corn crop still needs more time for maturity. Currently 71% at dough stage of development, 95% 1981, 90% average. An estimated 40% at the dent stage, 61% 1981, 66% average. An estimated 12% dented hard enough to be safe from frost, 29% 1981, 51% average. The corn crop most progressed in the southern third of the State. Minimal progress has been made with the corn silage harvest which was 3% complete, 4% 1981, 9% average. Haymaking continued and an estimated 41% of the intended 3rd crop has been harvested, 33% 1981. Pastures are in good shape for this time of year and rated at 85% of normal, 91% 1981, 84% average. Topsoil moisture supplies were rated 5% short, 83% adequate, and 12% surplus. Moisture supplies were rated 33% surplus in the north central district. Many fresh fruits and vegetables now available at direct marketing outlets. The 1982 tobacco harvest continuing in tobacco-producing regions.

WYOMING: All stations above seasonal average temperatures, ranging from 3 to 9° above normal. Rainfall below normal except isolated locations.

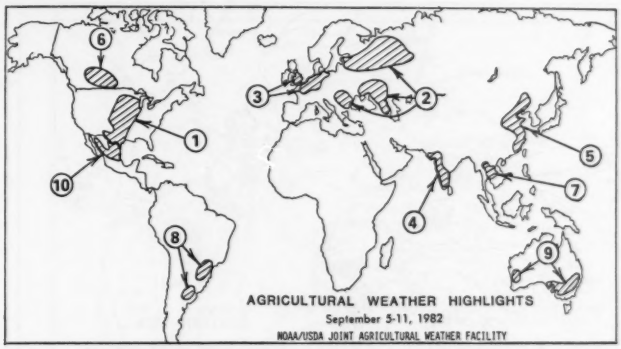
Topsoil moisture adequate 66% State. Average 6 days suitable fieldwork despite numerous showers. Spring wheat harvested: 75%. Oats harvested: 80%. Barley harvested: 85%. Normally, most small grains harvested by now. Harvested prospects row crops mostly good, but late. Corn in milk: 15%; year ago, 10%. Corn in dough: 40%; year ago, 55%. Corn denting: 40%; year ago, 30%. Corn mature: 5%, year ago, 5%. Corn silage harvested: 5%, year ago, 15%. Dry beans windrowed: 35%; year ago, 65%. Dry beans combined: 10%; year ago, 25%. Potatoes harvested: 20%; year ago, 20%. Second cutting alfalfa, 85% complete; third cutting, 15% complete. Winter wheat seeded for 1983: 30% complete; year ago, 50%. Winter wheat emerged: 10%; year ago, 20%. Livestock average to above average condition most areas. Marketing active.

GENERAL PATTERN OF ANNUAL WORLD PRECIPITATION (INCHES)

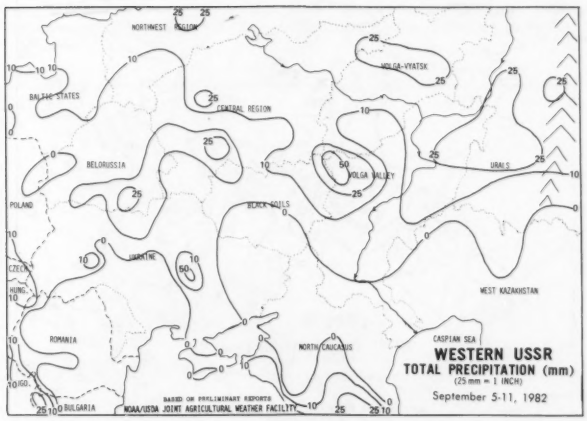


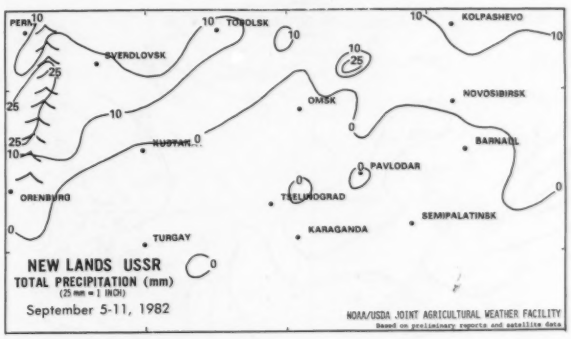
International Weather and Crop Summary

September 5-11



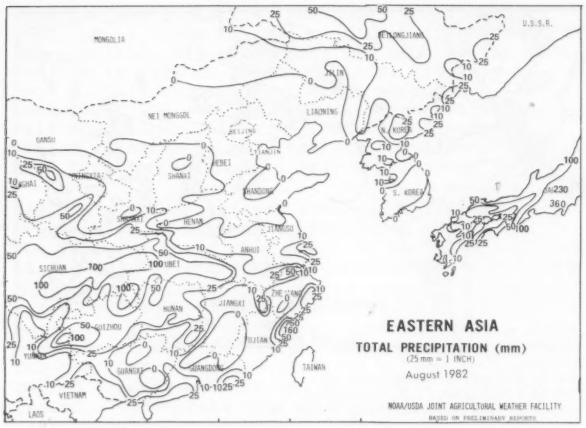
UNITED STATES:	Dryness deteriorates pastures in Texas and Oklahoma as well as delays land preparation and seeding of wheatlands. Unseasonable warmth over the western Corn Belt accelerates crop maturity which is still behind schedule.
USSR:	Showers continue to delay harvest in north European areas; unfavorably dry conditions continue over major winter grain areas.
EUROPE:	Favorable harvest weather over most crop areas.
SOUTH ASIA:	Unfavorably dry weather persists in many cotton and peanut growing areas.
EASTERN ASIA:	Mostly dry weather in many areas favors harvesting.
CANADA:	Rain in northern area of Alberta delays harvest; generally favorable conditions elsewhere.
SOUTHEAST ASIA:	Heavy rains cause flooding, but benefit most of Thailand.
SOUTH AMERICA:	Showers aid vegetative growth in Argentina's wheat area; drier weather favorable for crop conditions in southern Brazil.
AUSTRALIA:	Substantial rain in southeast Queensland sustains surviving wheat, but light showers elsewhere provide only minimal relief.
MEXICO:	Prolonged dryness critically stresses rainfed citrus and pastures in the northeast. Unusually light rainfall over western watersheds causes concern about next year's crop water supplies from some dams.



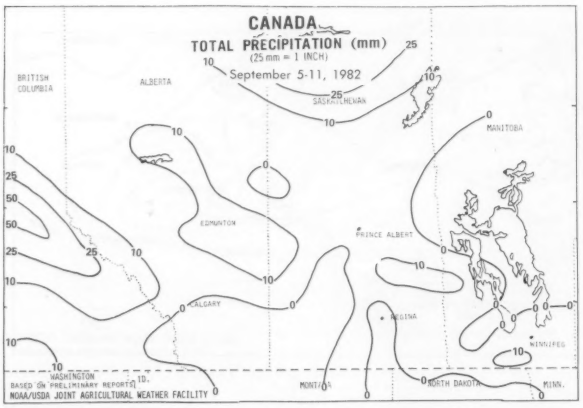


USSR: Wet weather continued to cover most north European crop areas. Rainfall amounts varied, around 25 mm, continuing to create some harvest delays. However, the rain which fell on the Volga Vyatsk and northern Urals benefited winter rye which reportedly has emerged in these areas. Hot, dry weather ahead of an eastward moving cold front spread northward into the North Caucasus, southern Volga Valley, the eastern Ukraine, and the southern Black Soils region early in the week. The hot, dry conditions further reduced topsoil moisture supplies needed for winter wheat planting. As the front passed through these areas, cooler air relieved the hot conditions but produced little, if any, rain. The dry weather favored maturing row crops such as corn. Weekly temperatures were near to below normal in the north and above normal in the south.

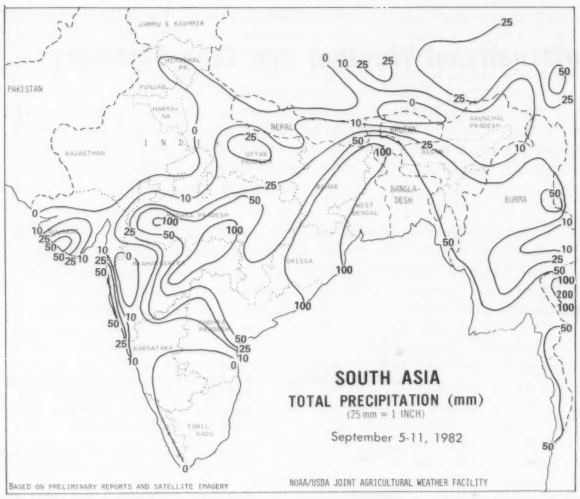
In the New Lands, an upper-level low-pressure system developed north of the Caspian Sea by week's end. As a result, favorably dry harvest weather early in the week gave way to persistent rainy conditions by week's end in northwestern crop areas. Rainfall amounts were generally light, around 10 mm. Elsewhere, dry weather continued over central and eastern crop areas, aiding the spring grain harvest. Weekly temperatures were below normal in the north and above normal in the south.



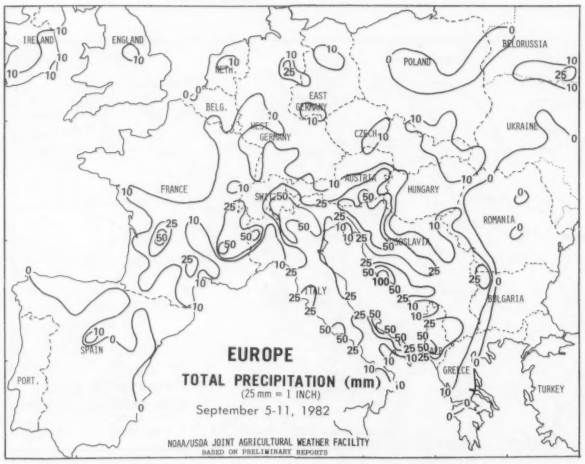
EASTERN ASIA: Relatively dry weather dominated much of the region. These conditions favored harvesting, while soil moisture in China's winter grain areas remained quite adequate for sowing. Moderate rain in parts of Heilongjiang likely did not interfere much with soybean harvesting. Rains in southern China were greatest in hilly, nonagricultural areas; late cotton harvesting in Hubei should have continued with little interruption. A second consecutive week of wetter than normal weather over much of the Sichuan Valley maintained unfavorable conditions for maturing crops. In South Korea, continued dry weather favored early rice harvesting, while later planted fields had adequate water supplies. Winter barley sowing does not normally begin until November. Tropical Storm Judy caused flooding in central Japan late in the week, as rainfall ranged from 100 to 300 mm over a broad area.



CANADA: The weekly rainfall pattern, similar to that of the previous week, showed the heaviest amounts (greater than 10 mm) in the northwestern portion of the Prairie grain belt. Isolated showers also produced at least 10 mm in scattered locations in Saskatchewan and Manitoba, while mostly light rain fell across the northern and eastern crop areas. Southern crop areas were generally dry, providing favorable conditions for maturing crops and harvesting. The wetness in northern crop areas of Alberta and Saskatchewan caused additional harvest delays with progress well behind last year's pace. In Saskatchewan, harvesting is most advanced in the south with over 80 percent of the cereal grains swathed and over 25 percent combined. Harvesting is just underway in many northern areas. Generally favorable weather aided Manitoba's crop harvests.



SOUTH ASIA: Strong westerly winds in the upper atmosphere kept tropical weather systems from moving into northwestern India. Irrigation supplies should have been adequate for late season crop needs in Haryana and Punjab, but conditions over much of Gujarat remained unfavorable for peanuts in the reproductive stage and cotton in the late vegetative stage. Many areas planted to these crops in the south also were too dry. Relatively heavy rains continued in many central and northeastern parts of India. Conditions were likely still too wet in many low-lying areas there, but the moisture benefited crops on higher ground. Localized dryness still persists in some northeastern parts of the country.



EUROPE: A low-pressure system moved slowly eastward across southern France into south-central Europe, producing widespread showers. Rainfall amounts were generally light, 10-25 mm, but some areas in eastern France, northern Italy, and northern Yugoslavia received rainfall amounts greater than 50 mm. The wet weather in southern France and northern Italy aided soil moisture recharge. In contrast, light precipitation in England, northern France, and most of northern Europe created few harvest delays, while mostly dry weather in Romania and Bulgaria aided harvesting. Topsoil moisture conditions for winter grain planting appear good in most areas

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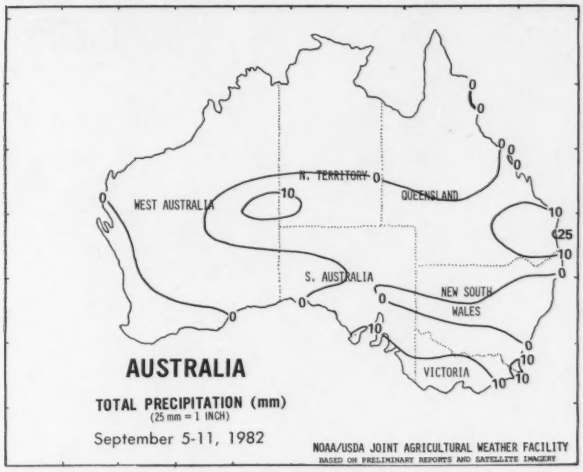
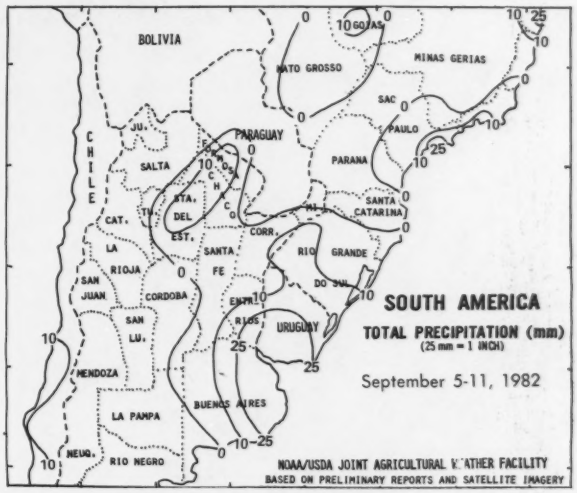
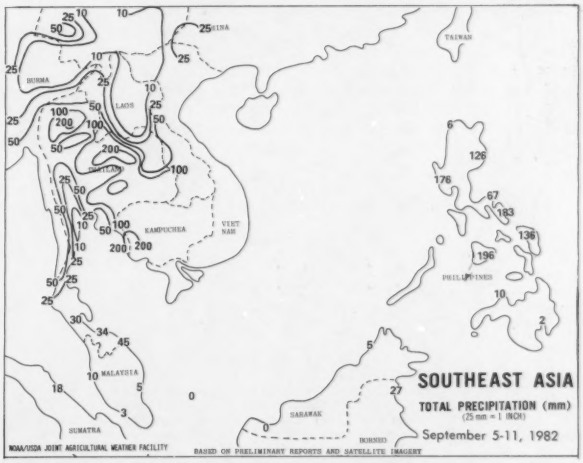


AUSTRALIA: The first significant rain in months fell over southeastern Queensland. The moisture came too late for any further wheat planting but may have helped sustain the development of the severely stressed surviving crop. The rainfall also provided some initial relief to the grazing lands. Although some light rain fell over a vast area of southern Australia, the amounts were insufficient to provide any lasting relief from the severe drought in much of the eastern wheat belt. In fact, some wheat areas of New South Wales missed even the sprinkles which fell over the interior of the continent before the disturbance intensified over southeastern Queensland. Otherwise, significant showers producing over 10 mm of weekly rainfall were confined to extreme southern crop areas of Victoria and South Australia. Western Australia was mostly dry. Temperatures were seasonally cool early in the week with the shower activity but warmed up with the drier weather late in the week.

MEXICO: Prolonged dry weather continuing across the northeast has critically stressed rainfed citrus and pastures. Even in irrigated districts, crop water needs have been unusually large and irrigation supplies relatively small because of the drought. Lighter than usual showers dotted a few of the western watersheds, causing concern about a shortage of next year's water supply in some dams. In contrast, further south along the coast, tropical thunderstorms triggered heavy rains from Mazatlan to Colima.



SOUTH AMERICA: Mild, dry weather gave way to widespread showers and thunderstorms across Argentina's wheat belt late in the week. The moisture benefited wheat, with warm weather promoting more vigorous crop growth which, in turn, increased the demand for water. Showers from this storm system spread into the southern half of Rio Grande do Sul by the end of the week. Moisture supplies are adequate for wheat in southern Brazil, with crop development ranging from vegetative growth in the extreme south to heading and grain filling in northern wheat areas. Warm, dry weather in Parana aided ripening of early maturing wheat. The wheat harvest usually begins in late September and October in northern crop areas of Brazil.



SOUTHEAST ASIA: Much of Thailand had heavy rainfall as a tropical depression crossed the country early in the week. Widespread flooding was reported in the east, but the moisture benefited rice in many parts of that area. Generous rains in the north boosted reservoir levels. Most of the Central Plains had above-normal rains, but dryness persisted in the hills west of Bangkok. Satellite imagery indicated that rainfall in Laos, Vietnam, and Kampuchea was about the same as in eastern Thailand.

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National Weather Summary

(continued from front page)

FRIDAY . . .Tropical Storm Chris was born in the Gulf of Mexico and moved toward the coast at the Texas-Louisiana border. Heavy rainshowers began in southwestern Louisiana, and moderate to heavy showers continued eastward to southern Georgia. Widepsread showers fell throughout the Rockies and most of the Plateau region. The showers spread from the northern Rockies into the Plains, and showers and thunderstorms continued through the eastern part of the upper Mississippi Valley.

SATURDAY . . .The center of Tropical Storm Chris moved into southern Louisiana and drenched the Mississippi Delta. Further east, the storm triggered heavy thunderstorms from northern Florida to South Carolina. A cold front moved into the Plains to a position from Minnesota to Arizonia and produced showers and thunderstorms along and ahead of it. Showers were heavy in parts of the central Plains, and the dry parts of western Kansas got some needed rain. Western Oklahoma had only light showers. Temperatures were cooler behind the front, but warm air continued over the Corn Belt most of the day.

(continued from p. 26)

International Weather and Crop Summary

except southern Poland and parts of West Germany, where moisture supplies may not be adequate for proper germination.

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